UNC RADIOLOGY

ANNUAL REPORT

July 2024 - June 2025

— Table of Contents //

July 2024 - June 2025

Cover image: Adobe stock AI image of a child getting a scan.

Message From the Chair

As I reflect on the past academic year, I am filled with pride in the remarkable achievements of our faculty, staff, and trainees. This has been a year of profound progress toward our vision of establishing UNC Radiology as the premier Radiology Department in the Southeast and a leader nationally.

In these pages, you will find highlights of the many honors, awards, publications, and grants earned by our clinical and radiological sciences faculty, staff, and trainees—tangible markers of our collective excellence.

Strengthening our three foundational pillars—patient care, education, and research—remains at the heart of our work. This year, we have invested deeply in expanding and enhancing our extraordinary community of faculty, trainees, and staff. They are the bedrock of our Department and the driving force behind our momentum.

A milestone of the year was our Department-wide State of the Union, where faculty, staff, trainees, and UNC Health and School of Medicine leadership gathered to reflect on our journey. Together, we celebrated how far we have come in five years, recognized our many accomplishments, and charted a path forward—affirming our role as innovators and leaders in our field.

Among our most visible contributions is the work of our Emergency Radiology Division, which this year reached a historic milestone: the successful recruitment and establishment of a full team of six dedicated academic Emergency Radiologists. Their 24/7, high-quality, final reads on the most urgent and complex cases exemplify the impact of radiology on patient care at its most critical moments.

Education continues to be a cornerstone of our mission. We celebrate the accomplishments of our graduating residents and fellows, and wish them continued success as they advance in their careers. We are equally grateful for those who remain with us—joining our fellowship programs or our faculty ranks—and warmly welcome our incoming trainees. With each new class, our education programs grow stronger, broadening opportunities and shaping the future of our specialty.

We also pause to honor the memory of former UNC Radiology faculty member, Dr. Leonard Alden (Al) Parker Jr., who passed away at his Chapel Hill home on June 11, 2025. His legacy of dedication and service endures, and our thoughts are with his family, friends, and all who were touched by his life.

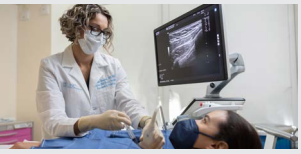
Looking back on these past five years, I am deeply proud of all that we have achieved—and even more excited about where we are headed. The collective dedication of this Department has transformed us, and the trajectory ahead is one of even greater promise. It is an honor to lead this remarkable community—onward to continued excellence and impact.

Maureen Kohi

Maureen P. Kohi, MD, FSIR, FCIRSE, FAHA
Ernest H. Wood Distinguished Professor and Chair

State of the Union: Five Years of Growth, Innovation, and Impact

"Looking Back and Leading Forward" was more than just the theme of the state of the union— it was a reflection of a transformational era in UNC Radiology's history.

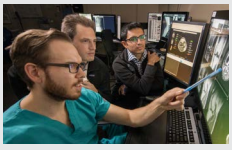













Top to bottom, left to right, Endovascular Center grand opening reception. Dr. Genevieve Woodard, performing an ultrasound on a patient. Drs. Charles Burke, David Mauro, Gerald Hladik, and Maureen Kohi doing the ribbon cutting at the Endovascular Center Grand Opening. Dr. Kassie McCullagh and Castillo scholar Jasmine Kimber stand in front of Jasmine's presentation at the Castillo Scholars evening of Scholarship. Trainee outing to an obstacle course. Penumbra educational VIR case observation at Hillsborough Hospital. Lectureship. Dr. Carolina Guimaraes training ultrasound for peds. Dr. Brian Hyslop teaching a resident. Faculty & residents posing before a yoga class. New NC Children's hospital announcement event. Dr. Josh Wallace teaching residents.

On June 11, 2025, our Department Chair Dr. Maureen P. Kohi and leaders across the Department presented the State of the Union address, marking five years of remarkable progress. From a global pandemic to record-setting growth, the years 2020–2025 were a period of resilience, innovation, and reimagination. Here's a look at where we've been—and where we're going.

Clinical Impact
Over the past five years, UNC Radiology experienced an average annual clinical growth of 8.6%, expanding its faculty from 42 to 67. Services extended to new regional sites, including UNC Chatham Hospital, Eastowne, and the UNC Health Endovascular Center. More than $60 million was invested in cutting-edge imaging technologies across all locations.

Care innovations included launching an Emergency Radiology Division, Rapid Access Clinics, and an IR Office-Based Lab, all aimed at improving access and efficiency. Digital scheduling tools and nurse navigators elevated the patient experience.

Looking ahead, the Department will open Orange County's first freestanding low-cost imaging center, and contribute to the development of NC's first freestanding children's hospital.

Education Excellence
UNC Radiology's residency and fellowship programs continue to thrive. The residency program added tracks in research, education, and early IR specialization, with a 100% match rate and strong national rankings.

Fellowship offerings expanded, including North Carolina's first Emergency Radiology Fellowship and a new Interventional Oncology Fellowship launching in 2025. Undergraduate medical education opportunities also grew, including acting internships and the Castillo Scholars Program.

Research Leadership
Research efforts achieved a 45% increase in funding, now exceeding $12 million annually. The Department ranks #1 in NC, #23 nationally, and top 10 amongst Public Departments of Radiology in the NIH Blue Ridge rankings. Since 2023, 13 new clinical trials have been launched, and the Department continues to host its annual Research Symposium.

The new Research Leadership Pathway will train physician-scientists, supported by initiatives like the MS in Biomedical Imaging and T32 grants.

Culture & Support
The Department has prioritized wellness, recognition, and staff development. New mentorship programs, social events, and alumni engagement strengthened community and morale. Staff infrastructure expanded, with process improvements and professional development at the forefront. UNC Radiology enters the next five years with momentum, a clear mission, and a focused vision: to lead in care, education, and discovery—locally and nationally.

Looking Forward
The message from the 2025 State of the Union was clear: UNC Radiology is stronger, and more united than ever. With bold clinical innovations, nationally recognized education and research, and a thriving culture of collaboration and compassion, the Department is well-positioned to lead the next chapter in academic radiology.

Special thanks to Sheerah Coe, MA, and Joanna Newman, MS, for their support of the 2025 State of the Union event.

UNC Health, Duke Health partner on new children's hospital

Original article appeared on UNC Health newsroom on January 28, 2025: https://go.unc.edu/Am5r7

UNC Health and Duke Health, two of the nation's top academic medical systems, are partnering to create a new children's health system in North Carolina, including the state's first freestanding hospital dedicated solely to kids.

The organizations filed articles of incorporation with the state on Jan. 28 to establish NC Children's, a private, nonprofit 501(c)(3) entity. The plan calls for a 500-bed hospital, children's outpatient care center, and behavioral health facility. The project fulfills a decade-long goal for both systems and gained momentum after the state's $320 million investment in early 2024.

The campus, now confirmed for Apex, will sit on 230 acres at US-1 and NC-540 and will be integrated into Veridea, a large mixed-use community. It will bring roughly 8,000 jobs to Apex and Wake County and include research and education facilities backed by the medical schools at UNC and Duke.

"This is an unprecedented partnership between UNC Health and Duke Health, aimed at elevating the care that's available for all children in North Carolina," said Dr. Wesley Burks, CEO of UNC Health and dean of the UNC School of Medicine. "We're thrilled to have Apex as our home and partner."

Duke leaders echoed that vision. "Children are the heart of our future, and families across North Carolina deserve access to the highest quality care," said Dr. Craig Albanese, CEO of Duke University Health System. "This is a tremendous and unique opportunity to work together to reimagine pediatric care for our region's most vulnerable."

The new system will combine clinical programs and research portfolios, creating a destination for pediatric subspecialists, researchers, residents, and fellows. Plans include 103 behavioral health beds, ambulatory surgical facilities, rehabilitation areas, play spaces, and translational research zones.

"It will foster groundbreaking pediatric research and first-class education and training for health care professionals," said Dr. Mary E. Klotman, executive vice president for health affairs at Duke and dean of its medical school. "By uniting our institutions and disciplines, we can give children the healthy lives they deserve and nurture future leaders in health care."

UNC and Duke will transfer their pediatric services and operations to NC Children's, though research and education programs will remain within their schools while collaborating on-site. The hospital will maintain perpetual academic affiliations with both schools and an open medical staff model, allowing qualified providers—regardless of affiliation—to apply for privileges.

Construction is expected to begin by 2027, with completion of the hospital projected in the early 2030s. Other facilities, such as the behavioral health center and outpatient services, may open earlier.

"This campus will create a brighter, healthier future for generations of children and adolescents across North Carolina and the Southeast," Burks said. "There is a great deal of mutual respect between our institutions, and we both want the same thing for the children of North Carolina — the best care, close to home."

Dr. Wesley Burks (left), CEO of UNC Health and dean of the UNC School of Medicine, and Dr. Craig Albanese, CEO of Duke University Health System, at the announcement of NC Children's Jan. 28. (UNC Health)

UNC Radiology's Emergency Radiology Division Reaches a Historic Milestone

The 2024–2025 academic year marks a pivotal moment for UNC Radiology as we celebrate a remarkable achievement in our Emergency Radiology Division: the successful recruitment and establishment of a full team of six dedicated academic Emergency Radiologists. UNC is the only academic medical center in North Carolina with a fully staffed Emergency Radiology Division—a distinction that sets a new benchmark for excellence in the state.

What began as a growing need for 24/7 Emergency Imaging coverage has evolved into a model of academic, clinical, and educational innovation. The fully realized Emergency Radiology team now provides around-the-clock, high-quality final reads for some of the most critical cases in the hospital—delivering care when it matters most. Their expertise has led to dramatically reduced turnaround times (TAT), directly impacting clinical decision-making and patient outcomes. By assuming responsibility for a large volume of acute imaging, they've also helped relieve workload pressure on other Divisions, enabling more balanced workflows across the Department.

In February 2025, Dr. John Nazarian was appointed Division Chief of Emergency Radiology, marking the beginning of a new era of leadership. With his extensive clinical expertise and dedication to teaching, Dr. Nazarian is poised to guide the Division through its next phase of development and innovation.

The impact of the Division extends far beyond efficiency. Emergency Radiology has quickly become a cornerstone of education at UNC. Residents rotating through evening and overnight shifts benefit from real-time feedback and immersive, hands-on training with a high volume and variety of complex cases. This dynamic learning environment not only sharpens diagnostic skills but also builds the confidence essential for future independent practice.

In recognition of his outstanding commitment to teaching, Dr. Nazarian was honored with the 2025 UNC Emergency Medicine Ectopic Attending Award—an accolade given to a non-EM faculty member who has shown exceptional dedication to resident education. This is a powerful testament to the Division's collaborative spirit and cross-specialty impact.

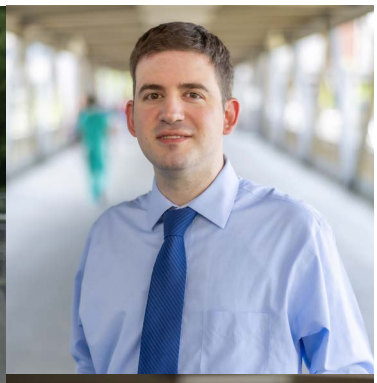
Beyond clinical care and education, the Emergency Radiology Division continues to advance the field through meaningful scholarly contributions. Faculty members have authored peer-reviewed publications, led research initiatives, and contributed to national discussions on best practices and innovations in Emergency Imaging. Their scholarship is helping to shape the future of Emergency Radiology both regionally and nationally.

This past year also marked a series of outstanding academic accomplishments by faculty that underscore the Division's growing national impact:

Dr. Mariana DeFreitas was selected for the RSNA Introduction to Academic Radiology for Junior Faculty (ITARJF) program—an honor that reflects her rising influence and potential in academic radiology. She was also named a Sheps Research Fellow, a prestigious five-year appointment through the UNC Cecil G. Sheps Center for Health Services Research, and she received the AAR Clinical Effectiveness in Radiology Research Academic Fellowship (CERRAF) Award, securing $140,000 in research funding over two years.

This Division's story is one of visionary growth, deep collaboration, and unwavering commitment to excellence. We are proud to recognize their leadership and the transformative role they've played in redefining what Emergency Radiology can accomplish in an academic medical center. As we look ahead, the Emergency Radiology Division stands as a model of what is possible when clinical expertise, academic rigor, and a passion for teaching come together in the service of patient care.

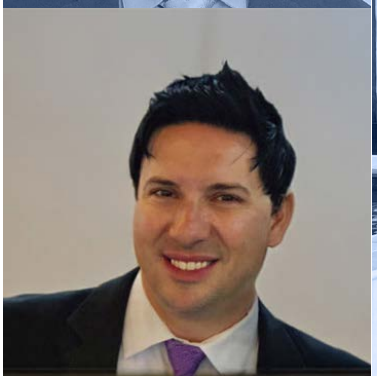
Top to bottom, left to right: Dr. Mariana DeFreitas with her family at the new trainee picnic. Dr. John Nazarian. Dr. Mariana DeFreitas. Dr. Kingsley Asiedu, Assistant Professor starting in August 2025. Drs. Mariana DeFreitas, Jennifer Schroeder, and resident Nisha Pradhan, attending a conference. Drs. Mariana DeFreitas and John Nazarian with residents attending conference. Dr. Bobby Kiani. Dr. Minh-Tri "Tri" Dang, who starts September 2025. Drs. John Nazarian, Jason Pietryga, and Mariana DeFreitas, the original ER team, posing together at a faculty breakfast. Dr. Bradley Spieler.









Celebrating the Next Generation of Radiology Leaders:

A Night of Honor, Gratitude, and New Beginnings

On Saturday, June 14th, 2025, UNC Radiology hosted the 2025 Residency and Fellow graduation at the Governors Club. It was an unforgettable evening filled with pride, emotion, and inspiration as graduates, their loved ones, and faculty gathered for the Department of Radiology's annual Graduation Celebration. Held in a festive atmosphere complete with a cocktail reception, dinner, and a celebratory awards ceremony, the event honored the outstanding achievements of our graduating residents and fellows—individuals who have grown into exceptional clinicians, scholars, and future leaders in the field.

From their very first readout to their final call shift, each graduate has left an indelible mark on our Department. The celebration served as both a joyous send-off and a heartfelt thank you for the passion, resilience, and commitment they brought to their training.

Celebrating Excellence: 2025 Awards

The emotional core of the evening came during the awards ceremony, where we honored those whose contributions and impact elevated our Department:

Resident Teaching Award
Dr. Janet Zhang
Recognized for her passion for education, including engagement and teaching of junior residents and medical students.

Resident Service Award
Dr. Henry Stiepel
Recognized for consistently going above and beyond his expected responsibilities as a resident role model and Department Ambassador in pursuit of furthering the missions of the Department.

Clinical Excellence Award
Dr. Tyler Glass
Honored for his outstanding clinical knowledge, diagnostic and interventional excellence, and mastery across the field of Radiology.

Honoring Our Faculty Champions

The celebration also spotlighted faculty whose educational leadership and mentorship continue to shape the future of radiology:

Charles Bream Teaching Award
Dr. Ersan Altun
Awarded by the graduating residents in recognition of his exceptional teaching, approachability, and dedication to fostering a rich learning environment, Dr. Altun has contributed significantly to their understanding and knowledge of radiology and consistently demonstrated the superior clinical acumen, teaching excellence, invaluable mentorship, and respectful professionalism exhibited by Dr. Charles Bream.

J. Keith Smith Faculty Mentoring and Development Award
Dr. Lauren Burke
Acknowledged for her transformative mentorship and deep investment in nurturing faculty development, collaboration, and career growth, Dr. Burke was recognized by her peers for providing exemplary guidance and support for our junior faculty.

A Farewell, But Not Goodbye

As the evening drew to a close, hugs were exchanged, toasts were raised, and cameras flashed—capturing not just a moment, but the bonds forged through shared experiences, late nights, and life-changing mentorship.

To our graduates: We are thrilled that many of you have chosen to continue your career with us. Your journey has just begun, and we are endlessly proud to have been part of it. As you step into new roles across the country—and the world—we know you will carry the UNC Radiology spirit with you: a commitment to excellence, to service, and to making a difference.

Congratulations, Class of 2025!

MEET THE GRADUATES

Diagnostic Radiology Residents

We proudly recognize the following residents who completed their rigorous training:

- Dr. Andrew Campbell
- Chief Resident Dr. Tyler Glass
- Dr. Cristina Guzzetti
- Dr. Matthew MacLean
- Chief Resident Dr. Ellen Jones
- Dr. Bhavana Pottabatula
- Chief Resident Dr. Henry Stiepel
- Dr. Jordan Taylor
- Dr. Janet Zhang

Vascular and Interventional Radiology – Integrated

- Dr. Bryan Harris

Vascular and Interventional Radiology – Independent

- Dr. Austin Evans
- Dr. Jared Weinand
- Senior IR Chief Dr. Lawrence "Jack" Wood

Fellows

Neuroradiology

- Dr. Jose Alejandro Bregni Ibarra
- Dr. James "Jimmy" Epps
- Dr. Anthony Dyer
- Dr. Joshua Schoen

Abdominal Imaging

- Dr. Evan Harrison

Advanced Bone & Joint Imaging

- Dr. Shweta Kataria

Neuroimaging

- Dr. Noman Khan (completion Aug 2025)

Breast Imaging

- Dr. Lauren Hickman
- Dr. Marie Vogel

Cross-Sectional Imaging

- Dr. Selima Siala

Musculoskeletal Imaging

- Dr. Pranav Ajmera (completion Oct 2025)

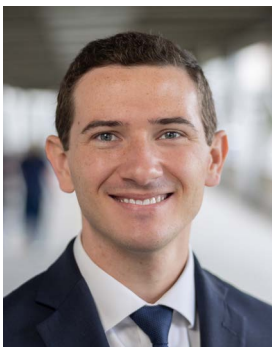
New Residents

DIAGNOSTIC RADIOLOGY

GREGGORY ADAMS, MD
University of South Carolina School of Medicine Greenville

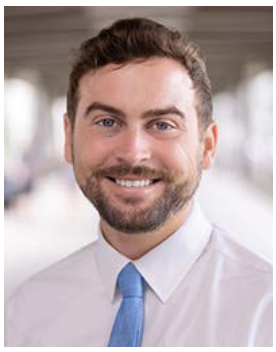
CHARLOTTE GOINS, MD
The University of North Carolina at Chapel Hill School of Medicine

NOEL JEANSONNE, MD
Wake Forest School of Medicine



WILLIAM JOHNSON, MD
USF Health Morsani College of Medicine

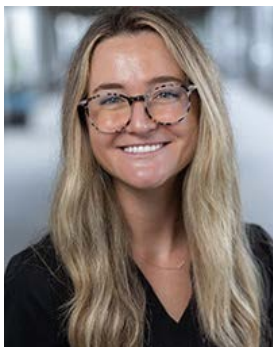
DAHYUN KANG, MD
University of Florida College of Medicine



JAMISON KLINE, MD
Indiana University School of Medicine

DANIEL MOORE, MD
The University of North Carolina at Chapel Hill School of Medicine

HANEYEH SHAHBAZIAN, MD
Shahid Beheshti University of Medical Sciences



COURTNEY WING, MD
University of Central Florida College of Medicine

INTEGRATED VASCULAR & IR

JACKSON ROSSBOROUGH, MD
University of Miami Leonard M. Miller School of Medicine

CARLY TROUPE, MD
University of Missouri-Columbia School of Medicine

JYOSHITHA TELLA, DO
Lake Erie College of Osteopathic Medicine

NEW R-3s

MIKAL RAMON, MD
Texas Tech University Health Sciences Center

LUCAS SHERIDAN, DO
Alabama College of Osteopathic Medicine

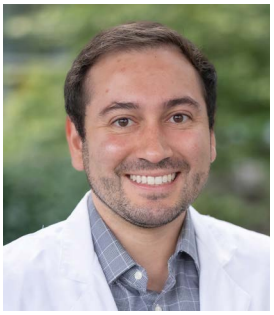
New Fellows

ABDOMINAL IMAGING

TYLER GLASS, MD

ELLEN JONES, MD

MATTHEW MACLEAN, MD

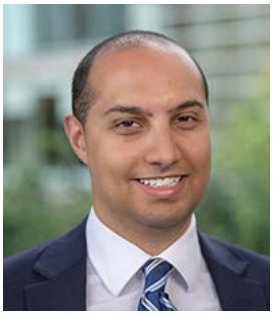


HENRY STIEPEL , MD

DON TRUONG, MD

BREAST IMAGING

ZACHARY AULGUR, MD



BENJAMIN GREINER, MD

RACHEL ROTH, MD

BONE & JOINT IMAGING

PRANAV AJMERA, MD

KRISHNA RAUNIYAR, MD

CROSS-SECTIONAL

NOMAN KHAN, MD

NEURORADIOLOGY

ANDREW CAMPBELL, MD

BHAVANA POTTABATULA , MD

SELIMA SIALA, MD

ANDREW SINESKY , MD

CHEST

POONAM YADAV, MD

CT

SHWETA KATARIA, MD

IR ONCOLOGY

ROSHAN VALENTINE, MD

IR INDEPENDENT

CRISTINA GUZZETTI, MD

XUAN TRAN, MD

Publications | January - June 2024

ABDOMINAL IMAGING

CT/MRI LI-RADS 2024 Update: Treatment Response Assessment.
Aslam A, Chernyak V, Tang A, Miller FH, Bashir M, Do R, Sirlin C, Lewandowski RJ, Kim CY, Kielar AZ, Kambadakone AR, Yarmohammadi H, Kim E, Owen D, Charalel RA, Shenoy-Bhangle A, Burke LM, Mendiratta-Lala M. *Radiology.* 2024 Nov;313(2):e232408. 2025 Feb;314(2):e259002. PMID: 39530896.

A Case of Rapidly Progressive De Novo Metastatic Small-Cell Neuroendocrine Prostate Cancer.
Dalal A, Clark-Garvey S, Gdowski A, Zhang S, Wobker SE, Rowe SP, Altun E, Beltran H, Milowsky MI. *Case Rep Oncol Med.* 2024 Sep 17;2024:7998149. doi: eCollection 2024. PMID: 39318975

A Lexicon for First-Trimester US: Society of Radiologists in Ultrasound Consensus Conference Recommendations.
Rodgers SK, Horrow MM, Doubilet PM, Frates MC, Kennedy A, Andreotti R, Brandi K, Detti L, Horvath SK, Kamaya A, Koyama A, Lema PC, Maturen KE, Morgan T, Običan SG, Olinger K, Sohaey R, Senapati S, Strachowski LM. *Radiology.* 2024 Aug;312(2):e240122. PMID: 39189906

A Lexicon for First-Trimester US: Society of Radiologists in Ultrasound Consensus Conference Recommendations.
Rodgers SK, Horrow MM, Doubilet PM, Frates MC, Kennedy A, Andreotti R, Brandi K, Detti L, Horvath SK, Kamaya A, Koyama A, Lema PC, Maturen KE, Morgan T, Običan SG, Olinger K, Sohaey R, Senapati S, Strachowski LM. *Am J Obstet Gynecol.* 2025 Jan;232(1):1-16. Epub 2024 Aug 27. PMID: 39198135

Utility of tele-guidance for point-of-care ultrasound: a single center prospective diagnostic study.
Cal EM, Gunnell E, Olinger K, Benefield T, Nelson J, Maggioncalda E, McGinty K. *J Ultrasound.* 2024 Sep;27(3):519-525. Epub 2024 Feb 10. PMID: 38340216

Imaging of Iatrogenic Injuries to the Bowel.
Rhodes NG, Olinger K, Galgano SJ, Pietryga JA. *Radiol Clin North Am.* 2025 May;63(3):387-403. Epub 2025 Jan 4. PMID: 40221182

A Lexicon for First-Trimester US: Society of Radiologists in Ultrasound Consensus Conference Recommendations.
Rodgers SK, Horrow MM, Doubilet PM, Frates MC, Kennedy A, Andreotti R, Brandi K, Detti L, Horvath SK, Kamaya A, Koyama A, Lema PC, Maturen KE, Morgan T, Običan SG, Olinger K, Sohaey R, Senapati S, Strachowski LM. *Am J Obstet Gynecol.* 2025 Jan;232(1):1-16. Epub 2024 Aug 27. PMID: 39198135

Preoperative Identification and Outcomes of Vascular Variants on Surgery for Chronic Pancreatitis. Salamah H, Patel DJ, Chen ME, Hyslop WB, Desai CS. *J Surg Res.* 2024 Sep;301:398-403. Epub 2024 Jul 18. PMID: 39029263.

Biopsy-proven BK virus nephropathy in renal transplant recipients: A multi-central study from Turkey (BK-TURK STUDY).
Gungor O, Dheir H, Islam M, Toz H, Yildiz A, Sinangil A, Tatar E, Asci G, Ulutas O, Altun E, Altunoren O, Apaydin S, Ersoy A, Korucu B, Safak S, Derici U, Yildirim S, Seyahi N, Ozcan SG, Atilgan KG, Ayli MD, Cavdar C, Uzun O, Yilmaz R, Erdut A, Sevinc M, Kasapoğlu U, Kocyigit I, Uysal C, Turkmen K, Ozer H, Velioglu A, Ok E, Kaya B, Yilmaz Z, Ozkan O, Cebeci E, Turgutalp K, Gursu M, Yuksel E, Eren N, Dervisoglu E, Guzel FB, Yildiz G, Bakirdogen S, Inci A, Sevinc C, Turkmen A. Clin Nephrol. 2024 Oct;102(4):202-211. PMID: 39037084

A Case of Rapidly Progressive De Novo Metastatic Small-Cell Neuroendocrine Prostate Cancer.
Dalal A, Clark-Garvey S, Gdowski A, Zhang S, Wobker SE, Rowe SP, Altun E, Beltran H, Milowsky MI. Case Rep Oncol Med. 2024 Sep 17;2024:7998149. PMID: 39318975

BREAST IMAGING

ACR Appropriateness Criteria® Imaging of Invasive Breast Cancer.
Expert Panel on Breast Imaging; McDonald ES, Scheel JR, Lewin AA, Weinstein SP, Dodelzon K, Dogan BE, Fitzpatrick A, Kuzmiak CM, Newell MS, Paulis LV, Pilewskie M, Salkowski LR, Silva HC, Sharpe RE Jr, Specht JM, Ulaner GA, Slanetz PJ. J Am Coll Radiol. 2024 Jun;21(6S):S168-S202. PMID: 38823943.

Unknown Case: Man With a Palpable Retroareolar Mass.
Diep H, Kuzmiak CM. *J Breast Imaging.* 2025 Mar 18;7(2):249-251. PMID: 38833620.

Unknown Case: Non-mass Enhancement on Baseline MRI.
Kerbag M, Kuzmiak CM. *J Breast Imaging* 2024 Nov 5:6(6):686-688. PMID: 38833615.

Meta-analysis: Radial Scar and Breast MRI.
Ferre R, Covington MF, Kuzmiak CM. *Acad Radiol.* 2024 Oct. 31(10):3910-3916. PMID: 38714429.

Posttraumatic Breast Hemorrhage With the Development of Fat Necrosis,

BREAST IMAGING - CONTINUED

Johnson W, Kuzmiak CM. *Journal of Breast Imaging.* September/October 2024. 6(5):574–576. PMID: 39433060

Trends in Breast, Colon, Pancreatic, and Uterine Cancers in Women During the COVID-19 Pandemic in North Carolina.
Nyante SJ, Deal AM, Heiling HM, Kim KS, Kuzmiak CM, Calhoun BC, Ray EM. *Cancer Med.* Apr 2024.13(7):e7156. PMID: 38572934.

Paget Disease of the Breast: An Often-Overlooked Malignancy.
Kuzmiak CM, Ferre R. *Breast Disease.* Nov 2024. 44:1-9.

Atypical lobular hyperplasia: what we need to know.
Ferre R, Kuzmiak CM. *J Med Imaging Intervent Radiol* June 12, 2024. https://doi.org/10.1007/s44326-024-00011-4

Epinephrine-Containing Lidocaine and Hematoma Risk After Image-Guided Core Needle Breast Biopsy.
Davis EE, Mark S, Woodard GA, Tang F, Gellatly M, Hayward JH, Ray KM, Joe BN, Lee AY, Chung M. *Journal of Breast Imaging.* Accepted March 2025.

CARDIOTHORACIC IMAGING

Minute Pulmonary Meningothelial-Like Nodules: An Incidental Benign Entity in Association With Lung Adenocarcinoma.
Siala S, Rahoui N, Askin F, Gruden JF. *Case Rep Radiol.* 2025 Apr 10;2025:3311702. eCollection 2025.PMID: 40255327

MOLECULAR IMAGING & THERAPEUTICS

Diagnostic Imaging Nuclear Medicine. 4th ed.
Schroeder J.A., Fair J. Philadelphia: Elsevier, publication summer 2025.

Treatment Response Evaluation in Prostate Cancer Using PSMA PET/CT.
Gafita A, Schroeder JA, Ceci F, Oldan JD, Khandani AH, Lecouvet FE, Solnes LB, Rowe SP. *J Nucl Med.* 2025 Jun 5:jnumed.124.268071. Epub ahead of print. PMID: 40473460.

There is no "I" in team: Implications for academic radiology.
Rowe SP, Schroeder JA, Chu LC, Fishman EK. *Clin Imaging.* 2025 Mar;119:110411. Epub 2025 Jan 16. PMID: 39837252.

Evaluation of online teaching modules for PSMA PET interpretation.
Oldan JD, Rowe SP, Schroeder JA. *Prostate.* 2024 Dec;84(16):1419-1426. Epub 2024 Sep 9. PMID: 39246039.

Radiographic Response Assessments and Standardized Imaging Interpretation Criteria in Head and Neck Cancer on FDG PET/CT: A Narrative Review.
Schroeder JA, Oldan JD, Jewells VL, Bunch PM. *Cancers (Basel).* 2024 Aug 21;16(16):2900. PMID: 39199670.

From Automation to Innovation: How AI is Reshaping Global Industries
Smith J, Fishman EK, Chu LC, Rowe SP, Crawford CK. *J Am Coll* Radiol. 2025 Jun 19:S1546-1440(25)00340-0. Epub ahead of print. PMID: 40543539.

Data, Risk, Adaptation, and Resilience in Modern Healthcare.
Giovanis T, Fishman EK, Chu LC, Rowe SP, Crawford CK. *J Am Coll Radiol.* 2025 Jun 19:S1546-1440(25)00338-2. Epub ahead of print. PMID: 40543535.

Impact of Concomitant Hormone Therapy on the Diagnostic Performance of ^{18}F-Piflufolastat PET/CT in Prostate Cancer Patients: A Sub-Group Analysis of OSPREY Cohort B.
Saperstein L, Rowe SP, Gorin MA, Pienta KJ, Siegel BA, Morris MJ, Baskaran S, Stambler N, DiPippo VA, Denes BS. *Prostate.* 2025 May 4. Epub ahead of print. PMID: 40320701.

Imaging the translocator protein 18 kDa within cognitive control and declarative memory circuits in virally suppressed people with HIV.
Rubin LH, Maki PM, Du Y, Sweeney SE, O'Toole R, Nam H, Lee H, Soule AR, Rowe SP, Lesniak WG, Minn I, Dastgheyb R, Shorer EF, Wugalter KA, Severson J, Wu Y, Hall AW, Mathews WB, Kassiou M, Dannals RF, Kassaye SG, Brown TT, Bakker A, Pomper MG, Coughlin JM. *AIDS.* 2025 Feb 1;39(2):133-142. Epub 2024 Oct 10. PMID: 39405127.

Meeting Upcoming Clinical and Diagnostic Needs in Oncologic Imaging: A Structured Reporting System for Fibroblast-Activation-Protein-Targeted Imaging-FAP-RADS Version 1.0.
Novruzov E, Sheikh GT, Mamlins E, Holzgreve A, Mori Y, Ledderose S, Klauschen F, Watabe T, Gorin MA, Pomper MG, Herrmann K, Rowe SP, Werner RA, Giesel FL. *J Nucl Med.* 2025 Jun 5:jnumed.125.269914. Epub ahead of print. PMID: 40473461.

Lack of effect of renal function on uptake of 99m Tc-sestamibi in renal masses.

MOLECULAR IMAGING & THERAPEUTICS - CONTINUED

Amindarolzarbi A, Satcowitz K, Khalil A, Osman S, Murtazaliev S, Al-Zubaidi A, Viglianti BL, Solnes LB, Kaufmann B, Sheikhbahaei S, Pavlovich CP, Oldan JD, Benefield T, Singla N, Gorin MA, Rowe SP. *Nucl Med Commun.* 2025 May 1;46(5):392-395.Epub 2025 Jan 29. PMID: 39876805.

An Automated Deep Learning-Based Framework for Uptake Segmentation and Classification on PSMA PET/CT Imaging of Patients with Prostate Cancer.
Li Y, Imami MR, Zhao L, Amindarolzarbi A, Mena E, Leal J, Chen J, Gafita A, Voter AF, Li X, Du Y, Zhu C, Choyke PL, Zou B, Jiao Z, Rowe SP, Pomper MG, Bai HX. *J Imaging Inform Med.* 2024 Oct;37(5):2206-2215. Epub 2024 Apr 8. PMID: 38587770.

The Power of Corporate Psychology in Advertising Sales: How Emotion and the Consumer Brain Drive Client Decisions.
Schiller G, Fishman EK, Chu LC, Rowe SP, Crawford CK. *J Am Coll Radiol.* 2025 Mar 11:S1546-1440(25)00149-8. Epub ahead of print. PMID: 40081444.

Writing and publishing papers in academic radiology: Why it needs to be more than a box checked for promotion.
Fishman EK, Chu LC, Rowe SP. *Curr Probl Diagn Radiol.* 2024 Sep-Oct;53(5):539-540. Epub 2024 May 3. PMID: 38719626.

Inhibition of Mitochondrial-Associated Protein MAGMAS Resensitizes Chemoresistant Prostate Cancer Cells to Docetaxel.
Durán AM, Whitley K, Santiago K, Yoo C, Valdez G, Cheng KW, Ochoa P, de Semir D, Xiu J, Chokkalingam P, Das S, Schaefer ES, Rowe SP, Das BC, Casiano CA, Almaguel F. *Cancers (Basel).* 2025 Apr 30;17(9):1535. PMID: 40361461.

Rate of unspecific bone uptake on PSMA PET is determined by the Scaffold - not the Radionuclide. Letter regarding: "The homunculus of unspecific bone uptakes associated with PSMA-targeted tracers: a systematic review-based definition" and "Cutting back on overdiagnosis - Occam's razor and unspecific bone uptakes in PSMA PET".
Rowe SP, Gorin MA. *Eur J Nucl Med Mol Imaging.* 2024 Oct;51(12):3767-3768. Epub 2024 Sep 3. PMID: 39225824.

Increases in the Association Between the Rates of Synchronous and Metachronous Metastases over Time.
Yilmaz U, Rowe SP, Marks LB. *J Clin Med.* 2025 Apr 17;14(8):2762. PMID: 40283594.

AI in the Era of GPT: Transforming the Future of Work and Discovery.
Ferres JML, Fishman EK, Chu LC, Lopez-Ramirez F, Crawford CK, Rowe SP. *J Am Coll Radiol.* 2025 Feb 7:S1546-1440(25)00109-7. Epub ahead of print. PMID: 39924130.

Identity Matters: The Potential for a Frictionless and Secure Patient Experience.
Becker CS, Fishman EK, Rowe SP, Chu LC, Crawford CK. *J Am Coll Radiol.* 2025 Feb 7:S1546-1440(25)00107-3. Epub ahead of print. PMID: 39924132.

Data-Driven Ventures: A Path to Higher Returns and Greater Gender Equity.
Abramson J, Fishman EK, Chu LC, Rowe SP, Crawford CK. *J Am Coll Radiol.* 2025 Apr 24:S1546-1440(25)00248-0. Epub ahead of print. PMID: 40286884.

Elevated Baseline Mean Corpuscular Volume Predicts the Development of Severe Hematologic Toxicity After ^{177}Lu-DOTATATE Therapy.
Voter AF, Gafita A, Werner RA, De Jesus-Acosta A, Rowe SP, Solnes LB. *J Nucl Med.* 2024 Sep 3;65(9):1423-1426. PMID: 38991754.

Improving Efficiencies While Also Delivering Better Health Care Outcomes: A Role for Large Language Models.
Rao SK, Fishman EK, Rizk RC, Chu LC, Rowe SP. *J Am Coll Radiol.* 2024 Dec;21(12):1913-1915. Epub 2024 Jan 12. PMID: 38220038.

New Old Age Meets the Same Old Ageism: Leveraging Technology to Promote Healthier Aging.
Rees A, Fishman EK, Chu LC, Rowe SP, Rizk RC. *J Am Coll Radiol.* 2024 Nov;21(11):1830-1831. Epub 2024 Mar 26. PMID: 38527643.

The Scents, Sense, and Cents in Jeni's Splendid Ice Creams: Implications for Radiology.
Britton J, Fishman EK, Rowe SP, Chu LC, Rizk RC. *J Am Coll Radiol.* 2024 Nov;21(11):1835-1836. Epub 2024 Aug 6. PMID: 39117183.

How Tech Can Help Us Improve Health Care While Still Putting Patients First.
Lynch AH, Fishman EK, Rowe SP, Weisberg EM, Chu LC, Lugo-Fagundo E. *J Am Coll Radiol.* 2024 Aug;21(8):1325-1327. Epub 2023 Oct 12. PMID: 37832624.

Matching the Message to the Audience-Understanding What Your Customer Needs to Hear.
Reed S, Fishman EK, Chu LC, Rowe SP, Crawford CK. *J Am Coll Radiol.* 2025 Feb 7:S1546-1440(25)00106-1. Epub ahead of print. PMID: 39924135.

What can radiologists learn from the AI evolution in dentistry?
Tanz O, Rizk RC, Rowe SP, Fishman EK, Chu LC. *Curr Probl Diagn Radiol.* 2025 May-Jun;54(3):339-341. Epub 2024 Oct 3. PMID: 39384486.

The use of ^{99m}Tc-tetrofosmin in the characterization of indeterminate renal masses: a pilot study.
Spiro E, Murtazaliev S, Amindarolzarbi A, Sheikhbahaei S, Jones KM, Javadi MS, Kaufmann B, Allaf ME, Pavlovich CP, Singla N, Solnes LB, Gorin MA, Rowe SP. *BJU Int.* 2024 Dec;134(6):929-931. Epub 2024 Sep 22. PMID: 39308149.

Finding Common Ground: The Intersection of Science, Creativity, and the Human Connection.
Lang D, Fishman EK, Chu LC, Lugo-Fagundo E, Rowe SP. *J Am Coll Radiol.* 2024 Sep;21(9):1542-1543. Epub 2023 Sep 4. PMID: 37673229.

MOLECULAR IMAGING & THERAPEUTICS - CONTINUED

Building Bridges: Future-Proofing Established Industries and Building Relationships with the Black Community.
Rahmani J, Fishman EK, Rowe SP, Chu LC, Lugo-Fagundo E. *J Am Coll Radiol.* 2024 Oct;21(10):1715-1717. Epub 2023 Sep 17. PMID: 37726042.

Building and Scaling a Platform Business in Health Care.
Mathur A, Fishman EK, Rowe SP, Chu LC, Rizk RC. *J Am Coll Radiol.* 2025 Apr;22(4):507-509. Epub 2024 Dec 9. PMID: 39662712.

The Current State of Artificial Intelligence and Its Intersection With Radiology.
Benaich N, Fishman EK, Rowe SP, Chu LC, Lugo-Fagundo E. *J Am Coll Radiol.* 2024 Sep;21(9):1539-1541. Epub 2023 Oct 7. PMID: 37813225

The Importance of Experiential Learning in Inspiring and Preparing the Next Generation.
Bayer N, Fishman EK, Rowe SP, Chu LC, Lugo-Fagundo E. *J Am Coll Radiol.* 2024 Dec;21(12):1916-1918. Epub 2023 Dec 27. PMID: 38157953.

Clinical Factors Associated With Suspicious ^{18}F-DCFPyL Prostate-Specific Membrane Antigen Positron Emission Tomography Activity in Patients Initially Managed With Radical Prostatectomy Including Prostate-Specific Antigen < 0.5 ng/mL.
Li EV, Bennett R 4th, Ho A, Wong C, Mahenthiran AK, Kumar SKSR, Sun Z, Savas H, Rowe SP, Schaeffer EM, Patel HD, Ross A. *J Urol.* 2025 Feb;213(2):183-191. Epub 2024 Oct 18. PMID: 39423052.

Safety, Dosimetry, and Feasibility of [^{68}Ga]Ga-PSMA-R2 as an Imaging Agent in Patients with Biochemical Recurrence or Metastatic Prostate Cancer.
Lindenberg L, Hope TA, Lin FI, Rowe SP, Pucar D, Gilbert N, Chicco D, He B, Feuerecker B, Castaldi E, Solnes LB. *J Nucl Med.* 2025 Mar 3;66(3):359-365. PMID: 39915126.

Pancreatic Neuroendocrine Tumor incidentally found on 68Ga-PSMA PET/CT.
Luna R, Laheru DA, Shin EJ, Lossos C, Robinson MT, Rowe SP, Saad E, Markowski MC. *Nuklearmedizin.* 2025 Apr;64(2):177-179. English. Epub 2025 Apr 17. PMID: 40245883.

Langerhans Cell Histiocytosis-Associated Vertebra Plana on FDG PET.
Ruggiero C, Maracaja D, Rowe SP. *Nuklearmedizin.* 2025 Apr;64(2):175-176. Epub 2024 Nov 27. PMID: 39603258.

Team Building and Employee Satisfaction-How We Do It.
Spear T, Chu LC, Fishman EK, Rowe SP. *J Am Coll Radiol.* 2025 Jun;22(6):704-706. Epub 2024 Nov 28. PMID: 39612974.

Leadership: A Different Approach From a Different Perspective.
Catmull E, Fishman EK, Chu LC, Rizk RC, Rowe SP, Huang JH. *J Am Coll Radiol.* 2025 Jan;22(1):143-144. Epub 2024 Sep 16. PMID: 39293547.

A Look to the Future: Potential Theranostic Applications in Head and Neck Tumors.
Oldan JD, Solnes LB, Chin BB, Rowe SP. *Cancers (Basel).* 2025 Feb 19;17(4):695. PMID: 40002288.

More Is Different: Large Language Models in Health Care.
Lungren MP, Fishman EK, Chu LC, Rizk RC, Rowe SP. *J Am Coll Radiol.* 2024 Jul;21(7):1151-1154. Epub 2023 Dec 1. PMID: 38043632.

A pilot study of PSMA-targeted F-18-DCFPyL PET imaging of patients with adenoid cystic carcinoma.
Voter AF, Amindarolzarbi A, Shen CJ, Wang J, Kang H, Sharma R, Solnes LB, Pomper MG, Bishop JA, Rowe SP, Kiess AP. *Sci Rep.* 2025 May 16;15(1):17104. PMID: 40379702.

Unraveled: Prescriptions to Repair a Broken Health System.
Weeks WB, Rizk RC, Rowe SP, Fishman EK, Chu LC. *J Am Coll Radiol.* 2024 Dec;21(12):1919-1921. Epub 2024 Feb 1. PMID: 38295920.

Imaging of Chromophobe Renal Cell Carcinoma with ^{99m}Tc-Sestamibi SPECT/CT: Considerations Regarding Risk Stratification and Histologic Reclassification.
Rowe SP, Murtazaliev S, Oldan JD, Kaufmann B, Khan A, Allaf ME, Singla N, Pavlovich CP, De Marzo AM, Baraban E, Gorin MA, Solnes LB. *Mol Imaging Biol.* 2024 Oct;26(5):768-773. Epub 2024 Jul 29. PMID: 39078524.

Performance of PSMA-targeted radiotheranostics in an experimental model of renal cell carcinoma.
Singh R, Thotakura AK, Alati S, Lisok A, Jiang Z, Merino VF, Minn I, Yadav S, Markowski MC, Ged Y, Pavlovich CP, Singla N, Solnes LB, Gorin MA, Pomper MG, Rowe SP, Banerjee SR. *Front Oncol.* 2024 Sep 10;14:1432286.PMID: 39324008.

Molecular imaging of neuroendocrine tumors: Current applications and future trends.
Wang IE, SaTsu HA, Brooks AF, Werner RA, Rowe SP, Scott PJH, Viglianti BL. *Diagn Interv Imaging.* 2025 May 21:S2211-5684(25)00103-2. Epub ahead of print. PMID: 40404554.

Ultimate focus: applications of the Churchill Method in radiology.
Rowe SP, Rowe KH, Kohi M, Fishman EK, Moore D. *Clin Imaging.* 2025 Jul;123:110507. Epub 2025 May 13. PMID: 40398194.

The Elevation Approach for Work-Life Harmony.
Wells T, Fishman EK, Chu LC, Rowe SP, Crawford CK. *J Am Coll Radiol.* 2025 Mar 11:S1546-1440(25)00151-6. Epub ahead of print. PMID: 40081446.

Hippocampal Availability of the α7 Nicotinic Acetylcholine Receptor in Recent-Onset Psychosis.
Wong NR, Rubin LH, Harrington CK, Jenkins KR, Shinehouse LK, Yoon M, Kilgore JJ, Soule AR, Lesniak WG, Rowe SP, Horti AG, Kamath V, Dannals RF, Du Y, Pomper MG, Coughlin JM. *JAMA Netw Open.* 2024 Aug 1;7(8):e2427163. PMID: 39133487.

MOLECULAR IMAGING & THERAPEUTICS - CONTINUED

A Case of Rapidly Progressive De Novo Metastatic Small-Cell Neuroendocrine Prostate Cancer.
Dalal A, Clark-Garvey S, Gdowski A, Zhang S, Wobker SE, Rowe SP, Altun E, Beltran H, Milowsky MI. *Case Rep Oncol Med.* 2024 Sep 17;2024:7998149. PMID: 39318975.

Life: Distributed and Open Source.
Mullenweg M, Fishman EK, Chu LC, Rowe SP, Rizk RC. *J Am Coll Radiol.* 2025 Feb;22(2):240-242. Epub 2024 Aug 21. PMID: 39155028.

Artificial intelligence in radiation therapy: An emerging revolution that will be driven by generative methodologies.
Rowe SP, Wijetunga NA. *Diagn Interv Imaging.* 2024 Dec;105(12):469-470. Epub 2024 Sep 21. PMID: 39307586.

FDG PET in a Patient on a GLP-1 Agonist/Insulin Secretagogue.
Oldan JD, Landman PG, Schroeder JA, Khandani AH, Solnes LB, Lee CB, Rowe SP. *Clin Nucl Med.* 2024 Sep 1;49(9):e436-e438. Epub 2024 Jun 20. PMID: 38914020.

Addressing Mental Health in Professional Management.
Greenberg P, Fishman EK, Chu LC, Rowe SP, Lugo-Fagundo E. *J Am Coll Radiol.* 2024 Oct;21(10):1718-1720. Epub 2023 Sep 17. PMID: 37726041.

Initial Experience with [^{177}Lu]Lu-PSMA-617 After Regulatory Approval for Metastatic Castration-Resistant Prostate Cancer: Efficacy, Safety, and Outcome Prediction.
Gafita A, Voter A, Shesadri S, Spitz A, Marshall CH, Rowe SP, Markowski MC, Pomper MG, Civelek AC, Carducci MA, Denmeade SR, Young J, Pienta KJ, Paller CJ, Solnes LB. *J Nucl Med.* 2024 Nov 1;65(11):1724-1730. PMID: 39299783.

Molecular imaging for non-invasive risk stratification of renal masses.
Rowe SP, Islam MZ, Viglianti B, Solnes LB, Baraban E, Gorin MA, Oldan JD. Diagn Interv Imaging. 2024 Sep;105(9):305-310. Epub 2024 Jul 25. PMID: 39054210.

How to Create Creativity.
Catmull E, Fishman EK, Chu LC, Rowe SP, Crawford CK, Huang JH. *J Am Coll Radiol.* 2025 May;22(5):609-610. Epub 2024 Nov 28. PMID: 39612975.

Editorial: Theranostics as a driving force in nuclear medicine.
Rowe SP, Werner RA, Ray Banerjee S. *Front Oncol.* 2024 Sep 6;14:1468357. PMID: 39309733.

Molecular imaging along the heart-kidney axis.
Klimek K, Groener D, Chen X, Rowe SP, Speer T, Higuchi T, Werner RA. *Theranostics.* 2024 Oct 21;14(18):7111-7121. PMID: 39629123.

Prostate-specific Membrane Antigen: Diagnostics.
Alberts IL, Seifert R, Werner RA, Rowe SP, Afshar-Oromieh A. *PET Clin.* 2024 Jul;19(3):351-362. Epub 2024 May 3. PMID: 38702228.

NEURORADIOLOGY

Chapter: Nontraumatic Brain Emergencies in Geriatric Patients
Atlas of Emergency Imaging from Head-to-Toe. Edited by Michael N. Patlas, Douglas S. Katz and Mariano Scaglione. Bilal Battal and Carlos Zamora. pp. 1-23, March 2025. eBook ISBN 987-3-030-44092-3, DOI:10.1007/978-3-030-44092-3_53-1.

The Inner Ear: A Primer for Radiologists, Part 2: Congenital Anomalies, Inflammatory Disease, Trauma, and Neoplasms.
Zamora E, Zamora C. *Neurographics*, April 1 2025.

The Inner Ear: A Primer for Radiologists, Part 1: Anatomy, Physiology, and Intrinsic Abnormalities of the Otic Capsule. Neurographics.
Zamora E, Zamora C. October 1 2024. https://doi.org/10.3174/ng.2400009

Deep Learning Denoising Improves CT Perfusion Image Quality in the Setting of Lower Contrast Dosing: A Feasibility Study.
Mossa-Basha M, Zhu C, Pandhi T, Mendoza S, Azadbakht J, Safwat A, Homen D, Zamora C, Gnanasekaran DK, Peng R, Cen S, Duddalwar V, Alger JR, Wang DJJ. *AJNR Am J Neuroradiol.* 2024 Oct 3;45(10):1468-1474. PMID: 38844370.

Navigating Well-being in Radiology: Strategies, Challenges, and Opportunities Across Career Transitions.
Zamora C. *Acad Radiol.* 2025 Jan;32(1):430-432. Epub 2024 Dec 7. PMID: 39648098.

Radiographic Response Assessments and Standardized Imaging Interpretation Criteria in Head and Neck Cancer on FDG PET/CT: A Narrative Review.
Schroeder JA, Oldan JD, Jewells VL, Bunch PM. *Cancers (Basel).* 2024 Aug 21;16(16):2900. PMID: 39199670.

Imaging Approach to Myelopathies.
Battal B, Zamora C. *Magn Reson Imaging Clin N Am.* 2025 May;33(2):247-270. Epub 2025 Feb 18. PMID: 40287245.

Redefining traumatic axonal injury assessment for grading and prognostication: a never-ending MRI endeavor.
Battal B. *Eur Radiol.* 2024 Dec;34(12):8013-8014. Epub 2024 Jul 4. PMID: 38965094.

Hippocampal-Sparing Radiation Therapy in Primary Sinonasal and Cutaneous Tumors of the Head and Neck.
Hall J, Dance M, Huang B, Steele E, Nguyen L, Repka M, Chen

NEURORADIOLOGY - CONTINUED

X, Shen C. *Adv Radiat Oncol.* 2024 Aug 24;9(10):101588. PMID: 39263446.

Cross-Frequency Coupling as a Biomarker for Early Stroke Recovery.
Mark JI, Riddle J, Gangwani R, Huang B, Fröhlich F, Cassidy JM. *Neurorehabil Neural Repair.* 2024 Jul;38(7):506-517. Epub 2024 Jun 6. PMID: 38842027.

Primary spinal meningeal melanoma with intramedullary and intradural extramedullary components—a case report.
Bardsley RH, Kimber J, McCullagh KL. *BJR| Case Reports.* 2025 Mar 25. PMID: 40161969

Surface Expansion Regionalization of the Hippocampus in Early Brain Development.
Wang Y, Chen L, Wu Z, Hung SC, Smith JK, Wang L, Li T, Lin W, Li G. *bioRxiv [Preprint].* 2025 Feb 24:2025.02.22.639699. PMID: 40060560

Charting brain functional development from birth to 6 years of age.
Yin W, Li T, Wu Z, Hung SC, Hu D, Gui Y, Cho S, Sun Y, Woodburn MA, Wang L, Li G, Piven J, Elison JT, Wu CW, Zhu H, Cohen JR, Lin W; UNC/UMN Baby Connectome Project Consortium. *Nat Hum Behav.* 2025 Jun;9(6):1246-1259. Epub 2025 Apr 15. PMID: 40234630.

Editorial Comment: Optimizing Imaging With Photon-Counting Detector CTA of the Head and Neck.
Hung SC. *AJR Am J Roentgenol.* 2025 Jan;224(1):e2432227. Epub 2025 Jan 15. PMID: 39440801.

Case Report: long-term clinical outcomes in RANBP2-associated acute necrotizing encephalopathy.
Varghese SA, Olubiyi OI, Basuroski ID, Broman-Fulks J, Cardwell EB, Peck S, Yang QJ, Hung SC, Hunter SE. *Front Pharmacol.* 2025 Jun 5;16:1607682. PMID: 40538544.

ARPA-H for Radiologists: Novel Funding Opportunities and Results of a National Survey.
Lee YZ, Ikuta I, Jawahar A, Wilkinson J, Cappelletti C, Cruea RL, Ho ML. *Acad Radiol.* 2025 May;32(5):3050–3064. PMID: 39694788.

R2Gen-Mamba: A Selective State Space Model for Radiology Report Generation.
Sun Y, Lee YZ, Woodard GA, Zhu H, Lian C, Liu M. 2025 IEEE 22nd International Symposium on Biomedical Imaging (ISBI). 2025. p. 1–4.

Improving soft tissue contrast using a multisource CBCT for potential application in adaptive radiation therapy.
Xu S, Inscoe CR, Lian J, Lee YZ, Lu J, Zhou O. *Medical Imaging 2025: Physics of Medical Imaging.* SPIE; 2025. p. 355–360.

Toward the clinical translation of safe intravenous long circulating ILNEs contrast agent for CT imaging.
Attia MF, Marasco RN, Kwain S, Foxx C, Whitehead DC, Kabanov A, Lee YZ. *Theranostics.* 2025;15(10):4550–4565. PMCID: PMC11984398

Second generation stationary chest tomosynthesis with faster scan time and wider angular span.
Billingsley A, Inscoe C, Lu J, Zhou O, Lee YZ. *Med Phys.* 2025 Jan;52(1):542–552. PMID: 39413307

Adapting Novel Augmented Reality Devices for Patient Simulations in Medical Education.
Alexander SM, Friedman V, Rerkpattanapipat PM, Hiatt WA, Heneghan JS, Hubal R, Lee YZ. *Cureus.* 2024 Aug 5;16(8):e66209. PMID: 39233986.

Stationary prospective cardiac gated computed tomography-dynamic study in phantoms and in vivo.
Billingsley A, Inscoe C, Attia MF, Lu J, Zhou O, Lee YZ. *Phys Med Biol.* 2024 Aug 8;69(16):10.1088/1361-6560/ad62d1. PMID: 38996425.

Extended nnU-Net for Brain Metastasis Detection and Segmentation in Contrast-Enhanced Magnetic Resonance Imaging With a Large Multi-Institutional Data Set.
Yoo Y, Gibson E, Zhao G, Re TJ, Parmar H, Das J, Wang H, Kim MM, Shen C, Lee Y, Kondziolka D, Ibrahim M, Lian J, Jain R, Zhu T, Comaniciu D, Balter JM, Cao Y. *Int J Radiat Oncol Biol Phys.* 2025 Jan 1;121(1):241-249. Epub 2024 Jul 25. PMID: 39059508.

PEDIATRIC IMAGING

Displaced cortical vein sign on CT in infants: a reliable predictor to distinguish low-attenuation subdural collections from benign enlargement of subarachnoid spaces.
Baskar D, Siala S, W Pryor W, Benefield T, V Guimaraes C.Pediatr Radiol. 2025 Mar;55(3):459-465. Epub 2025 Jan 20.PMID: 39831978.

Fetal MRI of Prenatal Scalp Lesions: A Pictorial Essay.
Wilke F, Siala S, Dahmoush H, Kline-Fath BM, Guimaraes CV. Semin Ultrasound CT MR. 2025 Mar 31:S0887-2171(25)00008-3. Online ahead of print.PMID: 40174708.

Fundamentals of fetal brain MRI: indications, technique, and normal anatomy.

PEDIATRIC IMAGING - CONTINUED

Siala S, Guimaraes CV. Pediatr Radiol. 2025 Apr 24. Online ahead of print. PMID: 40272566.

Artificial intelligence: a primer for pediatric radiologists.
Straus Takahashi M, Donnelly LF, Siala S. Pediatr Radiol. 2024 Dec;54(13):2127-2142. Epub 2024 Nov 18.PMID: 39556194.

NICHD Magnetic Resonance Brain Imaging Score in Term Infants With Hypoxic-Ischemic Encephalopathy: A Secondary Analysis of a Randomized Clinical Trial.
Shankaran S, Laptook AR, Guimaraes C, Murnick J, McDonald SA, Das A, Petrie Huitema CM, Pappas A, Higgins RD, Hintz SR, Zaterka-Baxter KM, Van Meurs KP, Sokol GM, Chalak LF, Colaizy TT, Devaskar U, Tyson JE, Reynolds AM, DeMauro SB, Sánchez PJ, Laughon MM, Carlo WA, Watterberg K, Puopolo KM, Hibbs AM, Hamrick SEG, Cotten CM, Barks J, Poindexter BB, Truog WE, D'Angio CT; Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. *JAMA Pediatr.* 2025 Apr 1;179(4):383-395. PMID: 39960680.

The bad bug: early MRSA infections in children with CF are associated with worse respiratory outcomes.
García-Zapata PGRC, Takahashi MS, da Silva Filho LVRF. *Respir Med.* 2025 Jul;243:108109. Epub 2025 Apr 22. PMID: 40273997.

Peer Learning in Neuroradiology: Easier Than It Sounds.
Kunst MM, Sharpe RE, Pahade JK, Donnelly LF, Broder J. *AJNR Am J Neuroradiol.* 2024 Jun 7;45(6):E12-E13. PMID: 38697795.

Expenditure mapping of pediatric imaging costs using a resource utilization band analysis of claims data.
Baskar D, Jarmul JA, Donnelly LF. *Curr Probl Diagn Radiol.* 2025 Mar-Apr;54(2):210-213. Epub 2024 Jul 18. PMID: 39048500.

The Frequency of Multiple Central Line-Associated Bloodstream Infections (CLABSIs) Occurring in the Same Child: A Five-Year Experience.
Sotak TP, Troxler HB, Kirkley AM, Joyner BL Jr, Steiner MJ, Donnelly LF. *Jt Comm J Qual Patient Saf.* 2025 Apr 26:S1553-7250(25)00137-0. Epub ahead of print. PMID: 40442013.

The Journey and Relevant Influences for the 15-month Pathway Addressing the Pediatric Radiology Workforce Shortage. Hansen RM, Frush DP, Fadell MD, Oates ME, Donnelly LF, Fadell MF. *Pediatr Radiol.* 2025 Jun 9. Epub ahead of print. PMID: 40488774.

Accuracy of Contrast-Enhanced Ultrasound for Hepatocellular Carcinoma Post-Transcatheter Arterial Embolization.
McGillen KL, Pryor WW 3rd, Yee NS, Zhu J, Krok KL, Waybill PN. *J Clin Med.* 2024 Dec 18;13(24):7720. PMID: 39768642.

Virtual Multidisciplinary Team Meetings: A Tool to Increase Radiology Access in Global Health Settings.
Brown B, Pryor W, Nandi B, Mapurisa A, McAtee CL, Ozuah N, Mzumara S, McGinty K. *J Am Coll Radiol.* 2024 Nov;21(11):1805-1809. Epub 2024 Aug 6. PMID: 39117185.

AIUM Practice Parameter for the Performance of Neurosonography in Neonates and Infants, 2024 Revision.
Fordham LA et al. *J Ultrasound Med.* 2024 Nov;43(11):E50-E55. Epub 2024 Aug 20. PMID: 39165029.

Prenatal diagnosis of infratentorial anomalies: ultrasound, fetal MRI, and implications for counseling.
Chapman T, Mirsky DM, Iruretagoyena JI, Guimaraes CV. *Pediatr Radiol.* 2025 Jun 16. Epub ahead of print. PMID: 40522472.

VASCULAR AND INTERVENTIONAL RADIOLOGY

Preservation of Fertility by Direct Puncture Embolization of Acquired Uterine Arteriovenous Fistulae in Women of Childbearing Age with Life-Threatening Hemorrhage.
Rabei R, Garcia-Reyes K, Poder L, Strachowski L, Feldstein V, Ito T, Lager JC, Kohi MP, Lehrman E. *J Vasc Interv Radiol.* 2025 May 15:S1051-0443(25)00359-8. Epub ahead of print. PMID: 40381887.

Diversity, Equity, and Inclusion in Radiology: How Far We Have Come in Narrowing the Gender Gap.
Wang M, Yong-Hing C, Tomblinson C, Yee J, Kohi MP. Radiographics. 2024 Aug;44(8):e240033. PMID: 39052501.

Reproductive Outcomes of Patients Undergoing Uterine Artery Embolization for Uterine Fibroids: Proceedings from The Dr. James B. Spies Summit for Uterine Fibroid Research-A Society of Interventional Radiology Foundation Research Consensus Panel.
Stewart JK, Myers E, Petrozza J, Kaufman C, Golzarian J, Kohi MP, Chiang A, Carlos R, Spies J, Abi-Jaoudeh N, Salazar G. *J Vasc Interv Radiol.* 2024 Sep;35(9):1288-1295. Epub 2024 May 31. PMID: 38825179.

Medicolegal Considerations for Vascular Interventional Radiologists in the Era of Abortion Care Limitations.
Mody P, Keefe N, Salazar G, Kohi MP. *J Vasc Interv Radiol.* 2024 Jul;35(7):1072-1074. Epub 2024 Mar 20. PMID: 38519000.

IR Playbook: A Comprehensive Introduction to Interventional Radiology. 2nd Ed.
Keefe NA, Haskal ZJ, Park AW, Angle JF, Editor. New York, NY: Springer Publishing Co 2024: ISBN 978-3-031-52546-9

Early Experience Using Tantalum-Loaded Nanocomposite Hydrogel Conformable Embolic for Upper Gastrointestinal

VASCULAR AND INTERVENTIONAL RADIOLOGY - CONTINUED

Bleeding – Open-Sandwich Technique.
Gad S, Du Pisanie L, Mohnasky M, Harris B, Villalobos A, Keefe N, Mody P, Caddell A, Kokabi N. *J Clin Med.* 2025 Mar 29;14(7):2345. PMID: 40217796

National Utilization Trends of Inpatient Procedures for Symptomatic Uterine Fibroids and Adenomyosis: A 10-year Analysis.
Patetta MA, Griffith KN, Walker JA, Kohi MP, Nyante SJ, Salazar G, Keefe NA. *J Am Coll Radiol.* 2024 Dec 9:S1546-1440(24)00948-7. PMID: 39662714.

A Decade Long Analysis of Healthcare Disparities and Uterine Artery Embolization: An Exploration of Social Determinants of Health.
Patetta MA, Griffith KN, Walker JA, Kohi MP, Keefe NA, Salazar G. *J Vasc Interv Radiol.* 2024 Nov 23:S1051-0443(24)00722-X. Epub ahead of print. PMID: 39586535.

Obstetric Interventional Radiology: Periprocedural Considerations When Caring for the pregnant and Postpartum Patient.
Keefe N, Patel N, Mody P, Smith K, Quist-Nelson J, Kaufman C, Kohi M, Salazar G. *Semin Intervent Radiol* 2024; 41(04): 413-423. PMID: 39524245

Ultimate focus: applications of the Churchill Method in radiology.
Rowe SP, Rowe KH, Kohi M, Fishman EK, Moore D. *Clin Imaging.* 2025 Jul;123:110507. Epub 2025 May 13. PMID: 40398194.

Preservation of Fertility by Direct Puncture Embolization of Acquired Uterine Arteriovenous Fistulae in Women of Childbearing Age with Life-Threatening Hemorrhage.
Rabei R, Garcia-Reyes K, Poder L, Strachowski L, Feldstein V, Ito T, Lager JC, Kohi MP, Lehrman E. *J Vasc Interv Radiol.* 2025 Sep;36(9):1395-1400. Epub 2025 May 15. PMID: 40381887.

National Utilization Trends of Inpatient Procedures for Symptomatic Uterine Fibroids and Adenomyosis: A 10-Year Analysis.
Patetta MA, Griffith KN, Walker JA, Kohi MP, Nyante SJ, Salazar G, Keefe NA. J Am Coll Radiol. 2025 Apr;22(4):417-424. Epub 2024 Dec 9. PMID: 39662714.

A Decade Long Analysis of Healthcare Disparities and Uterine Artery Embolization: An Exploration of Social Determinants of Health.
Patetta MA, Griffith KN, Walker JA, Kohi MP, Keefe NA, Salazar G. *J Vasc Interv Radiol.* 2025 Mar;36(3):521-528.e4. Epub 2024 Nov 23. PMID: 39586535.

Diversity, Equity, and Inclusion in Radiology: How Far We Have Come in Narrowing the Gender Gap.
Wang M, Yong-Hing C, Tomblinson C, Yee J, Kohi MP. *Radiographics.* 2024 Aug;44(8):e240033. PMID: 39052501.

Reproductive Outcomes of Patients Undergoing Uterine Artery Embolization for Uterine Fibroids: Proceedings from The Dr. James B. Spies Summit for Uterine Fibroid Research-A Society of Interventional Radiology Foundation Research Consensus Panel.
Stewart JK, Myers E, Petrozza J, Kaufman C, Golzarian J, Kohi MP, Chiang A, Carlos R, Spies J, Abi-Jaoudeh N, Salazar G. J Vasc *Interv Radiol.* 2024 Sep;35(9):1288-1295. Epub 2024 May 31. PMID: 38825179.

Association Between Diagnosis-to-Limb Revascularization Time and Clinical Outcomes in Outpatients With Chronic Limb-Threatening Ischemia: Insights From the CLIPPER Cohort.
Fanaroff AC, Dayoub EJ, Yang L, Schultz K, Ramadan OI, Wang GJ, Damrauer SM, Genovese EA, Secemsky EA, Parikh SA, Nathan AS, Kohi MP, Weinberg MD, Jaff MR, Groeneveld PW, Giri JS. *J Am Heart Assoc.* 2024 May 7;13(9):e033898. Epub 2024 Apr 19. PMID: 38639376.

Medicolegal Considerations for Vascular Interventional Radiologists in the Era of Abortion Care Limitations.
Mody P, Keefe N, Salazar G, Kohi MP. *J Vasc Interv Radiol.* 2024 Jul;35(7):1072-1074. Epub 2024 Mar 20. PMID: 38519000.

RADIOLOGICAL SCIENCES

A lifespan-generalizable skull-stripping model for magnetic resonance images that leverages prior knowledge from brain atlases
Wang L, Sun Y, Seidlitz J, Bethlehem RAI, Alexander-Bloch A, Dorfschmidt L, Li G, Elison JT, Lin W, Wang L. *Nat Biomed Eng.* 2025 May;9(5):700-715. Epub 2025 Jan 8. PMID: 39779813.

A foundation model for enhancing magnetic resonance images and downstream segmentation, registration and diagnostic tasks.
Sun Y, Wang L, Li G, Lin W, Wang L. *Nat Biomed Eng.* 2025 Apr;9(4):521-538. Epub 2024 Dec 5. PMID: 39638876.

Charting brain functional development from birth to 6 years of age.
Yin W, Li T, Wu Z, Hung SC, Hu D, Gui Y, Cho S, Sun Y, Woodburn MA, Wang L, Li G, Piven J, Elison JT, Wu CW, Zhu H, Cohen JR, Lin W; UNC/UMN Baby Connectome Project Consortium. *Nat Hum Behav.* 2025 Apr 15. Epub ahead of print. PMID: 40234630.

The X chromosome's influences on the human brain.
Jiang Z, Sullivan PF, Li T, Zhao B, Wang X, Luo T, Huang S, Guan PY, Chen J, Yang Y, Stein JL, Li Y, Liu D, Sun L, Zhu H. *Sci Adv.* 2025 Jan 24;11(4):eadq5360. Epub 2025 Jan 24. PMID: 39854466.

Revealing excitation-inhibition imbalance in Alzheimer's disease using multiscale neural model inversion of resting-state functional MRI.
Li G, Hsu LM, Wu Y, Bozoki AC, Shih YI, Yap PT. *Commun Med*

RADIOLOGICAL SCIENCES - CONTINUED

(Lond). 2025 Jan 15;5(1):17. PMID: 39814858.

Automatic Segmentation of the Cisternal Segment of Trigeminal Nerve on MRI Using Deep Learning.
Hsu LM, Wang S, Chang SW, Lee YL, Yang JT, Lin CP, Tsai YH. *Int J Biomed Imaging.* 2025 Feb 16;2025:6694599. PMID: 39989710.

Neuromodulation in Small Animal fMRI.
Hsu LM, Shih YI. *J Magn Reson Imaging.* 2025 Apr;61(4):1597-1617. Epub 2024 Sep 15. PMID: 39279265.

Optogenetic stimulation of cell bodies versus axonal terminals generate comparable activity and functional connectivity patterns in the brain.
Hsu LM, Cerri DH, Carelli RM, Shih YI. *Brain Stimul.* 2025 May-Jun;18(3):822-828. Epub 2025 Mar 14. PMID: 40090667.

Approach to Chelating Radioactivity using Carbon Dots for Positron Emission Tomography Imaging.
Ho SL, Ma X, Basham CM, Zhao W, Cheng S, Jiang F, Sokolsky-Papkov M, Wu Z, Yuan H, Xie J,* Kabanov A,* Li Z.* *ACS Appl Mater Interfaces* . 2025 Jun 10. Online ahead of print.
Zhou L, Sun Q, Wang C, Long R, Hu M, Wan Q, Zhao W, Joshi S, Yang L, Liu H, Mao Y, Yang Y, Li Z,* Chen Y,* Wang L.* Development of 18F-Labeled Positron Emission Tomography Agents Targeting Fibroblast Activation Protein. Mol Pharm. 2025;22(6):2895-2904

Radiation-induced ferroptosis via liposomal delivery of 7-Dehydrocholesterol.
Li J, Zhan S, Yang W, Zhang H, Ma X, Chen F, Li A, Tong P, Jiang F, Cao Z, Delahunty I, Wang J, Wu Y, Liu Z, Li Z, Teng Y, Xu L, Xie J. *J Nanobiotechnology.* 2025 Mar 26;23(1):249. PMID: 40133959.

Arene and Heteroarene Functionalization Enabled by Organic Photoredox Catalysis.
Zhu Z, Wu X, Li Z, Nicewicz DA. *Acc Chem Res.* 2025 Apr 1;58(7):1094-1108. Epub 2025 Mar 12. PMID: 40071843.

Carbon isotopic labelling of carboxylic acids enabled by organic photoredox-catalysed cyanation.
Zhengbo Zhu; Xuedan Wu; Gerald Thomas Bida; Huaifu Deng; Xinrui Ma; Siran Qian; Zhanhong Wu; Zibo Li; David A. Nicewicz. *Nature Synthesis*. 2025, 4, 97–105

Iron Oxide Nanoparticles Induce Macrophage Secretion of ATP and HMGB1 to Enhance Irradiation-Led Immunogenic Cell Death.
Zhan S, Cao Z, Li J, Chen F, Lai X, Yang W, Teng Y, Li Z, Zhang W, Xie J. *Bioconjug Chem.* 2025 Jan 15;36(1):80-91. Epub 2024 Dec 16. PMID: 39680043.

Preliminary Study of Radionuclide-Labeled MerTK-Targeting PET Imaging Agents for the Diagnosis of Melanoma.
Wang C, Liu H, Yang Y, Sun Q, Yin L, Yang L, Wang X, Zhao W, Wan Q, Liu G, Chen Y, Li Z, Wang L. *J Med Chem.* 2024 Nov 14;67(21):19813-19825. Epub 2024 Nov 1. PMID: 39484831.

Two F-18 radiochemistry methods to synthesize a promising transient receptor potential canonical 5 (TRPC5) radioligand.
Yu Y, Jadhav SB, Xing Z, Jiang H, Qiu L, Huang T, Perlmutter JS, Li Z, Tu Z. *J Fluor Chem.* 2024 Nov;280:110367. Epub 2024 Oct 22. PMID: 40520526.

Difluoromethoxide Is a Strong Leaving Group in the Photoredox Deoxyradiofluorination of 2-Phenylpyridines.
Jiang M, Ellin NR, Telu S, Mungalpara M, Wu X, Li Z, Lu S, Pike VW. *J Org Chem.* 2024 Sep 20;89(18):13768-13773. Epub 2024 Sep 11. PMID: 39258625.

One-Step Synthesis of [^{18}F]Aromatic Electrophile Prosthetic Groups via Organic Photoredox Catalysis.
Li M, Staton C, Ma X, Zhao W, Pan L, Giglio B, Berton HS, Wu Z, Nicewicz DA, Li Z. *ACS Cent Sci.* 2024 Jul 18;10(8):1609-1618. PMID: 39220691.

First-in-Human Evaluation of [^{18}F]FDOPA Produced by Organo-Photoredox Reactions.
Wang L, Lv Z, Yang L, Wu X, Zhu Y, Liu L, Zhao Y, Huang Z, Nicewicz DA, Wu Z, Chen Y, Li Z. *Bioconjug Chem.* 2024 Aug 21;35(8):1160-1165. Epub 2024 Jul 18. PMID: 39023912.

Manufacturing 6-[^{18}F]Fluoro-L-DOPA via Flow Chemistry-Enhanced Photoredox Radiofluorination.
Wu X, Chen W, Deng H, Wang L, Nicewicz DA, Li Z, Wu Z. *Org Lett.* 2024 May 24;26(20):4308-4313. Epub 2024 May 10. PMID: 38728659.

Synthesis of ^{64}Cu-, ^{55}Co-, and ^{68}Ga-Labeled Radiopharmaceuticals Targeting Neurotensin Receptor-1 for Theranostics: Adjusting In Vivo Distribution Using Multiamine Macrocycles.
Fonseca Cabrera GO, Ma X, Lin W, Zhang T, Zhao W, Pan L, Li X, Barnhart TE, Aluicio-Sarduy E, Deng H, Wu X, Rakesh KP, Li Z, Engle JW, Wu Z. *J Nucl Med.* 2024 Aug 1;65(8):1250-1256. PMID: 38871388.

Chelator boosted tumor-retention and pharmacokinetic properties: development of ^{64}Cu labeled radiopharmaceuticals targeting neurotensin receptor.
Zhang T, Ma X, Xu M, Cai J, Cai J, Cao Y, Zhang Z, Ji X, He J, Cabrera GOF, Wu X, Zhao W, Wu Z, Xie J, Li Z. *Eur J Nucl Med Mol Imaging.* 2024 Sep;51(11):3322-3333. Epub 2024 May 21. PMID: 38771516.

Radiolabeling Diaminosarcophagine with Cyclotron-Produced Cobalt-55 and [^{55}Co]Co-NT-Sarcage as a Proof of Concept in a Murine Xenograft Model.
Lin W, Fonseca Cabrera GO, Aluicio-Sarduy E, Barnhart TE, Mixdorf JC, Li Z, Wu Z, Engle JW. *Bioconjug Chem.* 2024 Mar 20;35(3):412-418. Epub 2024 Feb 27. PMID: 38411531.

Hexafluoroisopropanol as a Bioconjugation Medium of Ultrafast, Tryptophan-Selective Catalysis.
Nuruzzaman M, Colella BM, Uzoewulu CP, Meo AE, Gross EJ, Ishizawa S, Sana S, Zhang H, Hoff ME, Medlock BTW, Joyner EC, Sato S, Ison EA, Li Z, Ohata J. *J Am Chem Soc.* 2024 Mar

RADIOLOGICAL SCIENCES - CONTINUED

13;146(10):6773-6783. Epub 2024 Feb 29. PMID: 38421958.

Synthesis and PET Imaging Biodistribution Studies of Radiolabeled Iododiflunisal, a Transthyretin Tetramer Stabilizer, Candidate Drug for Alzheimer's Disease.
Joshi SM, Wilson TC, Li Z, Preshlock S, Gómez-Vallejo V, Gouverneur V, Llop J, Arsequell G. *Molecules.* 2024 Jan 18;29(2):488. PMID: 38257401.

Early life phthalate exposure impacts gray matter and white matter volume in infants and young children.
Werder EJ, Lu K, Liu CW, Thistle JE, Rager JE, Li G, Wu Z, Li T, Wang L, Sandler DP, Gilmore JH, Piven J, Zhu H, Lin W, Engel SM. Environmental Research. 2025 Aug 15;279(Pt 2):121826. Epub 2025 May 10. PMID: 40355063

Ultrasound detection of lymphatic bubbles in a porcine dive model.
Currens JB, Moon RE, Makowski M, Natoli MJ, Leypoldt J, Woolard J, Brown D, Azarang A, Brown R, Schinazi E, Ransom Z, Papadopoulou V, Lance R. *J Appl Physiol*. 2025; In Press.

The Potential for Blood-Brain Barrier Disruption During Transcranial Ultrasound Super-Resolution Imaging.
Lee HR, Jones RM, Durham PG, Papadopoulou V, Pinton GF, Dayton PA. *Ultrasound Med Biol.* 2025 Jun;51(6):961-968. Epub 2025 Mar 18. PMID: 40107891.

Agreement of precordial and subclavian Doppler ultrasound venous gas emboli grades in a large diving data set.
Blogg SL, Azarang A, Papadopoulou V, Lindholm P. *Diving Hyperb Med.* 2025 Mar 31;55(1):2-10. PMID: 40090020.

Free Software for Automated Grading of Venous Gas Emboli in Doppler Ultrasound. Azarang A, Lindholm P, Papadopoulou V. *Undersea Hyperb Med.* 2025; 52(2):185-186.

Low-boiling-point perfluorocarbon nanodroplets for adaptable ultrasound-induced blood-brain barrier opening.
Dauba A, Spitzlei C, Bautista KJB, Jourdain L, Selingue E, VanTreeck KE, Mattern JA, Denis C, Ouldali M, Arteni AA, Truillet C, Larrat B, Tsuruta J, Durham PG, Papadopoulou V, Dayton PA, Tsapis N, Novell A. *J Control Release.* 2024 Dec;376:441-456. Epub 2024 Oct 23. PMID: 39419451.

Diffusion-weighted arterial spin labeling MRI to investigate mannitol-induced blood brain barrier disruption.
Tiwari YV*, Muir ER*, Jiang Z, Duong TQ. *Magn Reson Imaging.* 2025; 117: 110335. PMID: 39864601.

Connexin 50 Influences the Physiological Optics of the In Vivo Mouse Lens.
Pan X, Muir ER, Sellitto C, Jiang Z, Donaldson PJ, White TW. *Invest Ophthalmol Vis Sci.* 2024; 65(8): 19. PMID: 38984874.

Neuropathologic Processes Linked to Brain Network Resilience in Parkinson Disease: Local or Distributed Effects?
Dayan E. *Neurology.* 2024 Aug 27;103(4):e209731. Epub 2024 Jul 23. PMID: 39042845.

Impact of white matter hyperintensity volume on cognition among US Mexican American adults.
Graves LV, Diaz MM, Dayan E; Health and Aging Brain Study: Health Disparities (HABS-HD) Team. *J Int Neuropsychol Soc.* 2024 Dec;30(10):935-943. Epub 2024 Nov 26. PMID: 39587764.

Age-related differences in network controllability are mitigated by redundancy in large-scale brain networks.
Stanford W, Mucha PJ, Dayan E. *Commun Biol.* 2024 Jun 7;7(1):701. PMID: 38849512.

Blending motor learning approaches for short-term adjustments to gait in people with Parkinson disease.
Duppen CP, Sachdeva N, Wrona H, Dayan E, Browner N, Lewek MD. *Exp Brain Res.* 2024 Dec;242(12):2853-2863. Epub 2024 Oct 3. PMID: 39361030.

Carolina Mammography Registry Turns 30

Since its founding in 1994 by Dr. Bonnie Yankaskas, the Carolina Mammography Registry (CMR) has played a vital role in improving breast cancer screening, detection, and outcomes across North Carolina. What began as a community-based mammography registry has expanded into a nationally recognized research resource studying the full continuum of breast imaging—including digital mammography, tomosynthesis, ultrasound, and MRI.

Under the leadership of Dr. Louise Henderson (2011–2024) and now Dr. Sarah Nyante, the CMR has received continuous funding from the National Cancer Institute and has served as a member site of the Breast Cancer Surveillance Consortium. With additional support from PCORI, the American Cancer Society, and UNC Lineberger, the CMR has helped shape national screening guidelines and practice standards.

Over 30 years, the CMR has partnered with 50+ imaging practices, enrolled over 860,000 individuals from all 100 NC counties, and gathered data on millions of breast imaging exams. These efforts have informed key questions about cancer detection, risk, and imaging practices in real-world settings—ultimately helping improve outcomes for women across the state and beyond.

2024 Radiology Departmental Research Symposium

On Thursday, October 24th, 2024 UNC Radiology hosted its annual Research Symposium.

Guest Speakers
The event showcased multiple speakers, all of whom spoke in Kirkland Auditorium. The first speakers centered around the topic of *Perspectives on AI and Research at UNC*, and included Andy Johns, Senior Associate Vice Chancellor of Research; Ram Rimal, Manager of Data Science Engineering at UNC Health Care; and Stephanie Engel, PhD, Associate Director of Imaging based Population Sciences at the BRIC.

The event continued with an update on the *Vision for the Future of Radiology* by BRIC Director and Vice Chair of Basic Science Research Dr. Weili Lin, with additional speakers including Dr. Louise Henderson, focusing on epidemiology research, Dr. Yueh Lee and Dr. Nima Kokabi.

Keynote Speaker Zachary L. Bercu, MD, RPVI, FSIR, took the stage next. He is the Program Director for the Interventional Radiology Integrated (IR-Int) Residency, Co-Director of the Resident Medical Innovation Track, and Associate Professor in the Department of Radiology at Emory University School of Medicine. He provided an engaging presentation entitled *Not Just A Hasthag: Truly Integrating #Innovation Concepts in Image-Guided Medicine.*

Oral and Poster Presentations
The event also consisted of two oral presentation sessions which included a total of ten oral abstract presenters, including David S. Sailer, MD, R-3; Limei Wang, PhD Candidate; Kevin Wang, MD; Benjamin Gray, BS; He Zhang, PhD; H. Patrick Taylor, BS; Yanyao Du, MD; Yiding Gui, PhD Student; Omar Azrak, MD; Arian Azarang, PhD.

The poster presentations were attended as students, residents, and faculty reviewed the displays. Forty-nine posters lined the lobby ranging in a variety of topics from "Uterine Texture Analysis by Pelvic MRI for Symptomatic Endometriosis" to "Thoracic Duct Embolization with Obsidio, a Shear-Thinning Nanocomposite Hydrogel."

Award Winners
Poster Presentation Winners
Ultrasound Parameter Optimization for Effective Drug Delivery to MRSA Diabetic Wound Biofilms in Mice with Passive Cavitation Detection
Kelly VanTreeck, BSc

Photoredox catalyzed deoxyradiofluorination in the application of SV2A-target molecules labeling in Alzheimer's Disease Imaging
Xinrui Ma, MPH

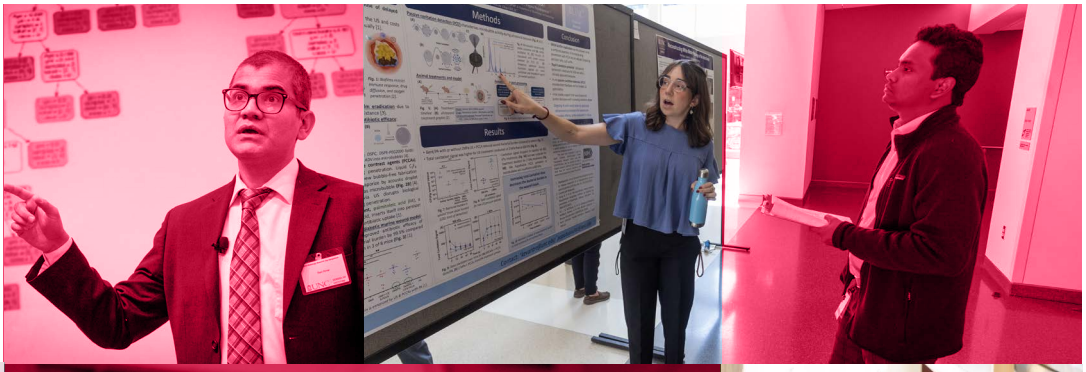
Oral Presentation Winners
Development of Novel Theranostic Platform Based on Multi-arm Vinyl Sulfone Functionalized Core
He Zhang, PhD

Left Common Iliac Vein Compression is Present in the Majority of Young Patients, Questioning the Need for Routine Treatment with Stents
Kevin Wang, MD

Congratulations to all presenters and winners. Thank you to all the students, faculty and staff of the UNC Department of Radiology and UNC-CH campus for participating and contributing to the 2024 Radiology Departmental Research Symposium.

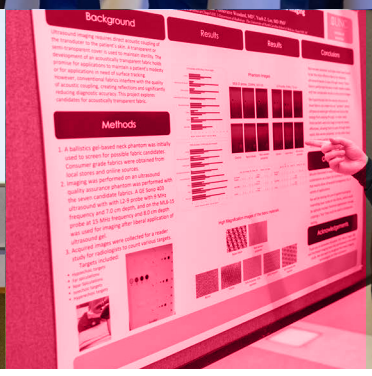
Thank You
Thanks to the planning committee members: Sheerah Coe, MA; Nicole Clayton; Desma Jones, CCRC, Nima Kokabi, MD, Yueh Lee, MD, PhD, and Sarah Nyante, PhD. We would like to thank the following faculty members for their invaluable help with the poster and oral presentation review process: Wei-Tang Chang; Mariana DeFreitas, MD; Uzay Emir, PhD; William Fenner Griffin III, MD; Li-Ming Hsu, PhD; Goushi Li, PhD; Kassie McCullagh, MD; Eric Muir, PhD; Kristen Olinger, MD; Virginie Papadopoulou, PhD; Will Pryor, MD; Muthu Sakthivel, MD; and Marcelo Takahashi, MD. A very special thanks to Nicole Clayton, Anna Byars, Sarah Edwards, Brittany Winstead, Ashley Paul and Amy Edge for their tremendous administrative support.

UNC
SCHOOL OF MEDICINE
Radiology
RADIOLOGY RESEARCH
SYMPOSIUM





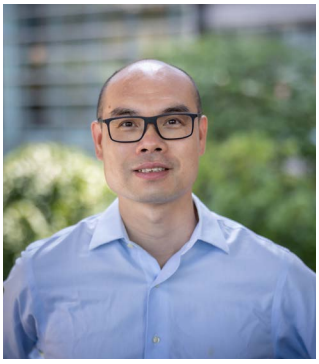




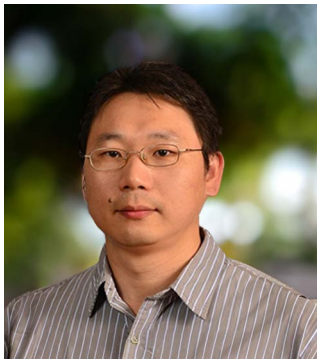

Promotions Staff & Faculty

BILAL BATTAL, MD
Assistant Professor,
Neuroradiology

ELLIE LEE, MD
Professor,
Abdominal Imaging



GUOSHI LI, PhD
Assistant Professor,
Radiological Sciences



GANG LI, PhD
Professor,
Radiological Sciences

MARKEELA LIPSCOMB
Associate Administrative
Director for Clinical Research

JORGE OLDAN, MD
Professor, Molecular Imaging and Therapeutics

KRISTEN OLINGER, MD
Associate Professor,
Abdominal Imaging

ALLISON SPEAGLE
Education Manager

Leadership & Education Updates

LANE DONNELLY, MD
Professor,
Pediatric Imaging

Associate Chair of Quality and Safety

CAROLINA GUIMARAES, MD
Professor & Chief,
Pediatric Imaging

Vice Chair of Operations

ALEX HUNG, MD, PhD
Associate Professor,
Neuroradiology

Vice Chair of Informatics

NIKKI KEEFE, MD
Assistant Professor,
Interventional Radiology

PD for the Integrated and Independent IR Residency

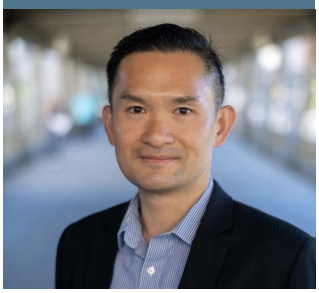
JOHN NAZARIAN, MD
Associate Professor,
Emergency Imaging

Chief of Emergency Radiology Division

GENEVIEVE WOODARD, MD, PhD
Assoc. Professor & Chief,
Breast Imaging

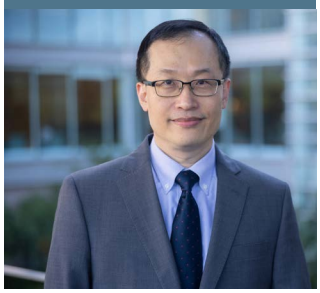
Vice Chair of Operations

PT YAP, PhD
Professor,
Radiological Sciences



Associate Chair of Radiological Sciences Research

HYEON YU, MD
Professor,
Interventional Radiology



Vice Chair of Quality and Safety

Welcome New Staff & Faculty

KAILA BRUSTKERN
SOCIAL/CLINICAL
RESEARCH ASSISTANT

SARAH DERYCKE
VIR APP
IR CLINICAL INSTRUCTOR

VERONICA HUDSON
VIR APP
IR CLINICAL INSTRUCTOR

ERIN MEDEIROS
VIR APP
IR CLINICAL INSTRUCTOR

KRISTEN TIGNOR
FINANCE MANAGER

Dr. Uzay Emir earned his Ph.D. in Biomedical Engineering from Boğaziçi University, where he studied BOLD fMRI signal transients across imaging modalities. He completed postdoctoral training at the Center for Magnetic Resonance Research (CMRR), University of Minnesota, focusing on advanced MR spectroscopy (MRS) methods for biomarker discovery in neurodegenerative diseases. At CMRR, he developed 3T and 7T MRS protocols that were later adopted by the Experts' Working Group on Advanced Single Voxel MRS.

Previously, Dr. Emir served as Lead Physicist at the University of Oxford's FMRIB Centre, where he led translational imaging efforts and pioneered simultaneous acquisition of functional MRS and BOLD fMRI using EPI. His recent work focuses on developing ultrashort echo time (UTE) MRI and MRSI technologies—including PETALUTE and DW-CRT—that overcome core limitations of conventional MRI by improving resolution, reducing artifacts, and enabling multi-contrast imaging.

His contributions have been recognized with numerous awards, including the Bruker MRI Award (1st Place), the AAPM Best in Physics Award, and 2nd Place in the ISMRM Reproducibility Challenge for x-nuclei MRSI and MRI. Dr. Emir's lab continues to innovate in high-resolution, artifact-resistant, and translational MRI techniques for applications in neuroscience and metabolic imaging.

UZAY EMIR, PhD
ASSOCIATE PROFESSOR, RADIOLOGICAL SCIENCIES
JOINT APPOINTMENT IN THE DEPARTMENT OF BIOMEDICAL ENGINEERING

Welcome New Faculty

BEHROOZ MASUODI, MD
ASSISTANT PROFESSOR, CARDIOTHORACIC IMAGING

Dr. Masuodi attended medical school at Kashan University of Medical Sciences and Health Services in Iran. He attended Johns Hopkins for a Nuclear Medicine Residency and then completed a Diagnostic Radiology Residency at INTEGRIS Baptist Medical Center in Oklahoma. Dr. Masuodi had the pleasure of working at UNC around seven years ago. He was a postdoctoral researcher at the time and participated in an observership in the Department of Radiology. He experienced the culture, the campus, and the atmosphere of UNC. When he saw the opportunity to return, he jumped at the chance, knowing it would be an excellent fit for his career at this stage. "I love North Carolina," says Dr. Masuodi when asked about the area.

ANDREA "ANDI" SENTER, MD
ASSOCIATE PROFESSOR, BREAST IMAGING

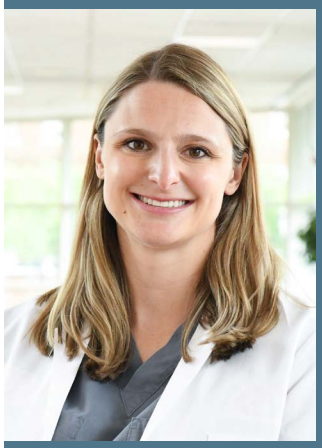
Dr. Andrea Senter better known to her patients, colleagues, and friends as Andi, has joined UNC Radiology Breast Division as an Associate Professor. Andi is "coming home" to UNC, after spending eight years in private practice with Duke. She completed her Diagnostic Radiology Residency and Breast Imaging Fellowship in our program.

She is a breast imaging physician with expertise in diagnosing, sampling, and surgical planning of benign and malignant diseases of the breast using mammography, MRI, and ultrasound. She also stays current in her skills as a Diagnostic radiologist with expertise in all imaging modalities, including CT, US, MRI, CT, CTA, MRA, and nonvascular interventions.

LOURENS DU PISANIE JR., MD
ASSISTANT PROFESSOR, INTERVENTIONAL RADIOLOGY

Dr. Lourens du Pisanie Jr. completed his undergraduate studies, medical degree, and interventional radiology residency at the UNC in Chapel Hill. He also completed a prelim year in General Surgery at New Hanover Regional Medical Center in Wilmington, NC. Passionate about education, he emphasizes hands-on, inclusive training that builds a strong foundation in core procedural skills, particularly ultrasound-guided techniques, before progressing to more complex interventions. He prioritizes safe patient care, individualized teaching, and empowering residents to develop confidence and autonomy. His research centers on minimally invasive vascular therapies.

ALEX BANATHY, MD
ASSISTANT PROFESSOR, INTERVENTIONAL RADIOLOGY



Dr. Alexandra "Alex" K. Banathy joins UNC Radiology as an Assistant Professor in the Interventional Radiology Division. She graduated with her bachelor's from Vanderbilt University in 2014 and her Medical Doctorate from Penn State College of Medicine in 2018. She completed her surgical internship in 2019 and her Interventional/ Diagnostic Radiology Integrated Residency at the University of Virginia in 2024. Alex believes that IR combines the best of both worlds by incorporating the problem-solving of diagnostic radiology and the solutions that can be offered with interventional procedures. IR procedures can have a significant impact on patients, resulting in a relatively short recovery time.

Welcome New Faculty

MEGHAN CLARK, MD
ASSISTANT PROFESSOR, INTERVENTIONAL RADIOLOGY

Dr. Meghan R. Clark joins UNC Radiology as an Assistant Professor in the Interventional Radiology Division. She graduated with a Bachelor of Science from Virginia Tech in Blacksburg, VA, in 2013 and with a Medical Doctorate from the West Virginia University School of Medicine in 2018. She completed her surgical internship in 2019 and her Integrated Interventional Radiology Residency at the University of Virginia in 2024. It was really the culture that attracted Meghan to UNC's Interventional Radiology program. Even as a medical student, when she interviewed for residency, the people she met and connected with made UNC stand out as a special place. As she completed her residency at UVA, the idea of coming to Carolina was always at the back of her mind.

MARCELO TAKAHASHI, MD
ASSISTANT PROFESSOR, PEDIATRIC IMAGING

Dr. Marcelo Takahashi is from Brazil, where he completed his education. He received his medical degree from the University of São Paulo. He went on to complete his Diagnostic Residency and his Pediatric Radiology Fellowship at the Clinical Hospital of the Faculty of Medicine of the University of São Paulo. He also completed a PhD program at the Institute of Radiology of the Clinical Hospital, Faculty of Medicine, University of São Paulo. His thesis paper was titled *Vesicoureteral reflux diagnosis, comparison between contrast-enhanced ultrasound and voiding cystourethrography.* He joined our Department as a Clinical Instructor in November 2023 but officially became an Assistant Professor in Pediatrics in 2024.

REBECCA HANSEN, MD
ASSISTANT PROFESSOR, PEDIATRIC IMAGING

Dr. Rebecca Hansen, known to family, friends, and patients alike as "Becca," recently joined the Pediatric Radiology Division at UNC as an Assistant Professor, bringing her passion for patient care and medical education to the Department. Rebecca graduated from Brody School of Medicine at East Carolina University in 2018 and completed her internship year at Vidant Medical Center at East Carolina University in Internal Medicine. She completed her Diagnostic Radiology Residency at the Medical University of South Carolina before finishing her education at Duke University Hospital with a Fellowship in Pediatric Radiology. Returning to UNC felt natural for Dr. Hansen. She completed her undergraduate studies at UNC and was familiar with the warm, collegial environment.

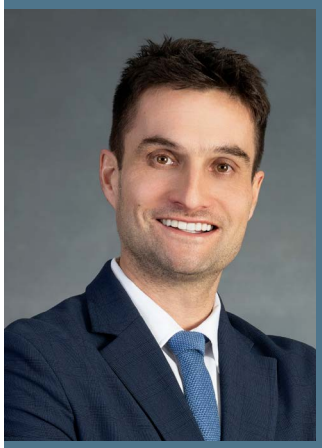
SAM OSTRUM, MD
ASSISTANT PROFESSOR, ABDOMINAL IMAGING

Dr. Samuel Ostrum followed a dynamic path to academic medicine. He earned his MD from Ohio State University in 2017, then completed a Diagnostic Radiology residency and Abdominal Imaging Fellowship at Duke University. After a position at Vanderbilt, he returned to North Carolina for family and the region's rich academic environment. Dr. Ostrum discovered radiology in medical school, drawn to its blend of technology and diagnostic reasoning. His passion for abdominal imaging grew from the challenge of diagnosing conditions, which allowed him to apply his problem-solving skills to guide patients and physicians toward effective treatment.

BAHRAM "BOBBY" KIANI, MD, MHA
ASSOCIATE PROFESSOR, EMERGENCY RADIOLOGY

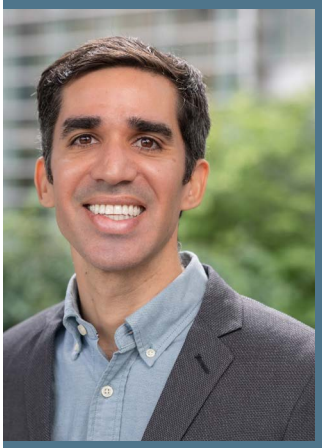
Dr. Bahram Kiani, also known as "Bobby," graduated from Ohio State University with his Medical Doctorate and a master's in health administration in 2005. He completed his Diagnostic Radiology Residency (2010) and Musculoskeletal Imaging Fellowship (2011) from Wake Forest School of Medicine. He joined the faculty of the Wake Forest School of Medicine and spent the last 13 years as an attending physician, training the next generation of radiologists. With a career path that spans from musculoskeletal radiology to academic research on crash investigations, Dr. Kiani's journey is marked by curiosity, a passion for teaching, and an ability to find humor in life.

ROMUALD "ROM" FERRE, MD, FRCPC
ASSOCIATE PROFESSOR, BREAST IMAGING



Dr. Romuald Ferre obtained his medical degree from the University of Bordeaux II in Bordeaux, France, and completed a residency in Diagnostic Radiology at the Assistance Publique – Hôpitaux de Paris (AP-HP). He then undertook a fellowship in musculoskeletal imaging (MSK) at Université Paris Cité (formerly Paris Descartes) and AP-HP, followed by two dedicated breast-imaging fellowships: the first at the Royal Victoria Hospital, McGill University Health Centre, Montréal, Canada, and the second at the University of Utah, Salt Lake City, USA. Dr. Ferre's love for radiology is not just about images on a screen; it's about evolving technology and patient-centered care.

FERNANDO MENDES FILHO, MD
CLINICAL INSTRUCTOR, MUSCULOSKELETAL IMAGING



Dr. Fernando Mendes completed his medical doctorate at The Federal University of Pernambuco (UFPE) in Brazil and his DR residency and MSK Fellowship at the Beneficência Portuguesa. Born and raised in northeast Brazil, Fernando grew up in a small town where his father was a local physician and a pillar of the community—the kind of doctor who held consultations in the family garage. From watching his dad care for neighbors to seeing patients drive up to the house for help, Fernando was inspired early by the power of medicine to build trust and serve a community. During the last six years in Brazil working in private practice he also completed an MBA in healthcare management from Fundação Getúlio Vargas.

EMILY WERDER, PhD
ASSISTANT PROFESSOR, RADIOLOGICAL SCIENCES

Dr. Emily Werder is an environmental epidemiologist who studies how everyday chemical exposures can shape brain development, especially in children. She is part of a growing group of interdisciplinary researchers at UNC who straddle multiple fields. She studies how everyday chemicals—things we all encounter in our air, water, or even in our shampoo—can affect brain development. But it's not just chemistry, imaging, or numbers. It's all the above. Dr. Werder completed her bachelor's at the University of North Carolina and went on to become a teacher in the Durham school system. She returned to the UNC Gillings School of Global Public Health to pursue her master's degree in Health Behavior and Health Education and her PhD in Epidemiology.

Spotlight Series: In Their Own Words

Meet our
Team Members

Late in 2024 the Department introduced a new monthly feature — the Spotlight Series: In Their Own Words — a chance to highlight the incredible individuals who help keep UNC Radiology running smoothly every day. Each month, we feature one of our staff members, giving them the space to share their story in their own voice. From admins to the reading room, from finance to research staff, this series celebrates the people who make our Department what it is: collaborative, compassionate, and committed.

The Staff Feature is more than just a profile — it's an opportunity for us to pause and recognize the unique backgrounds, talents, and journeys of our team. These stories will offer insights into their roles, what motivates them, and what UNC Radiology means to them. Whether someone has been with us for decades or just a few months, every voice matters. Check out the "Faces that Define Us" section on on our website to read the full articles.

Emily Gardner, CRA
Pre-Award Research Admin

UNC Radiology's Research Wizard (& Closet Broadway Star)

If there were a superpower tailor-made for the world of contracts and grants, Emily Gardner already has it — minus the cape. She's UNC Radiology's unofficial office energy source, known for juggling the chaos of new grant submissions with a smile, a laugh, and maybe a little dance in her step. Emily's journey to UNC Radiology feels like a homecoming in more ways than one. Born in North Carolina and raised as a Tar Heel loyalist, her UNC roots run deep — her grandmother once worked on campus cleaning out mice cages in a research lab. Young Emily would tag along and wander the halls, soaking in the buzz of campus life.

Fen Annarino, MS, RALAT
Faculty Research Staff

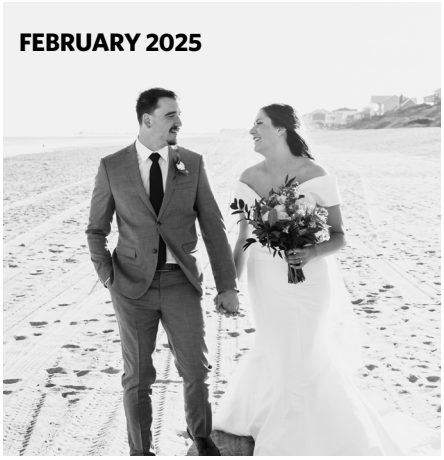
Science, Swamps, and Sundews: Fen's Wild Path to Radiology

If you ask Fen Annarino how he ended up as a research specialist for Dr. Muir, his answer is refreshingly honest: he wasn't exactly aiming for it—but we're glad he landed here. "I wasn't specifically looking for something in Radiology," he admits, "but this job popped out at me." It may have started with curiosity, but nearly a year in (almost to the day!), Fen's found his groove—and a fascinating niche—in ocular blood flow research.

Thad Benefield
Research Statistician

The Data Sleuth: The Many Facets of Thad Benefield

Thad Benefield is not your average statistician. By day, he meticulously sifts through decades of cancer screening data, endeavoring to make messy data more accurate to advance medical research. By night (or, more accurately, in the early hours of the morning), he is in the gym, pursuing his passion for powerlifting. Somewhere in between, he's chasing after his energetic daughter, savoring spicy foods, and devouring horror novels.



Joanna Newman
Program Coordinator

From Dreams of Sports to a New Vision in Healthcare: Joanna Newman's Journey

Joanna Newman's story is one of evolving dreams, boundless enthusiasm, and a knack for embracing change. From aspiring sports executive to key figure in healthcare administration, her journey reflects her versatility and her commitment to balancing professional growth with personal fulfillment. Whether she's diving into her career, family life, or hobbies, Joanna approaches everything with energy and positivity.

Alexis Evans
HR Consultant

The HR Maven

If you've ever wondered who keeps the gears turning behind the scenes in the Department of Radiology at UNC, meet Alexis Evans—HR Consultant, logistics queen, and a self-proclaimed "runner of a tight ship." With responsibilities stretching across onboarding, hiring, terminations, faculty support, salary changes, promotions, and beyond, Alexis is the master of multitasking. "I like to call this position an octopus role," she says. "I've got many different arms doing different things."

Allison Speagle
Education Manager and Diagnostic Radiology Residency Program Co-Coordinator

The Planner, Traveler, and Radiology Coordinator Extraordinaire

When you meet Allison Speagle, it doesn't take long to realize she's a natural organizer with a knack for connection. Whether she's coordinating major events or fostering relationships with residents, Allison's ability to juggle responsibilities shines in her role. Allison's career began with event management—a field that fit her like a glove. Allison honed her organizational skills across various roles at UNC. Eventually, her path led her to radiology, where she found the perfect balance of structure and connection.

Desma Jones, CCRC
Administrative Director for Clinical Research and Radiology Core Service Center

UNC Radiology's Dependable Director of Research

Desma Marie Jones has been a cornerstone of the UNC Radiology family since January 2019. With her dual roles as Administrative Director for Clinical Research and Radiology Core Service Center, she's a powerhouse of organization, research, and leadership. Her love of research is no accident. While she initially envisioned a career in the medical field, a detour into dental research revealed a fulfilling intersection of science, patient interaction, and meaningful impact.

Brittany Winstead
Administrative Assistant

The Dynamic Administrative Force Behind Peds, VIR, and NIR

Brittany Winstead joined the UNC Radiology team in February 2024 as an administrative assistant, bringing a wealth of experience and a positive attitude that has quickly made her an invaluable part of the Pediatric, Vascular, and Neurointerventional Radiology Divisions. Brittany serves as the primary point of contact for the faculty. Whether it's scheduling meetings, arranging travel, or organizing grand rounds, Brittany takes immense pride in her work.

Community Engagement

Residents Passing the "Torch"

Residents and Fellows

Resident Retreat

Painting Fun

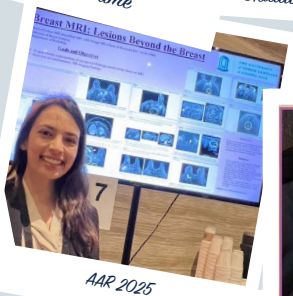
Durham Bulls Game

Graduating Residents and Fellows 2024

ASER 2024

ASER 2024

AAR 2025



AAR 2025

SIR 2025

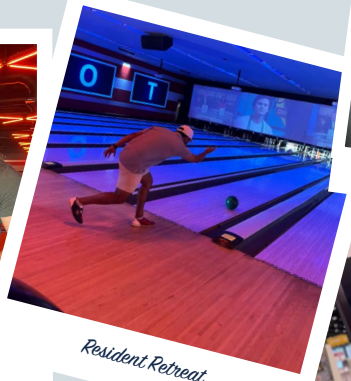
Education Staff Event

Staff outing

SIR 2025

Residency Bootcamp

Resident Retreat



Resident Retreat

Alumni Society Reception

Holiday Party

Holiday Party

RSNA

Holiday Party

Holiday Party

Holiday Party

Finance Team Retreat

Alumni Society Reception

Holiday Party

Holiday Party

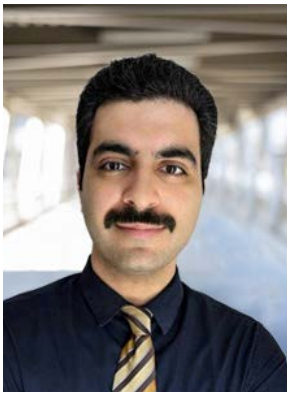
Holiday Party

HALLOWEEN
HIGH JINKS

Highlights and Honors

SAHAR AHMAD, PhD
Research Instructor

Has achieved a significant milestone by winning the prestigious Fetal, Infant, and Toddler Neuroimaging Group (FIT'NG) Young Investigator award.



ARIAN AZARANG, PhD
Assistant Professor, Research Faculty ENHANCE Lab

Received the UHMS President's award for Best Overall Poster Presentation at the joint AsMA and UHMS conference.

LAUREN BURKE, MD
Matthew A. Mauro Distinguished Professor, Abdominal Imaging

Named Matthew A. Mauro Distinguished Professor of Radiology.

JIALE CHENG
PhD student, Joint Department of Biomedical Engineering overseen by Gang Li

Awarded Best Poster award, First Place in 2025 IEEE 22nd International Symposium on Biomedical Imaging (ISBI).

CAROLINE CARSWELL
Interventional Radiology Residency Coordinator

Nominated for a Peer Recognition award for new employees (less than 2 years in their position). And accepted into the GME Leadership Academy for this upcoming year.

JOSH CURRENS
PhD student in the ENHANCE Lab

Earned the UHMS President's Award for Best Oral Presentation by a Resident/Trainee at the joint AsMA and UHMS conference.

MARIANA DEFREITAS, MD
Assistant Professor, Emergency Radiology

Selected for RSNA's Introduction to Academic Radiology for Junior Faculty (ITARJF) program. Appointed as a Sheps Research Fellow recognizing her partnership with UNC Cecil G. Sheps Center for Health Services Research.

LANE DONNELLY, MD
Professor, Pediatric Imaging

Chief Quality and Safety Officer for Children's. Vice Chair of Quality and Safety for the Department of Pediatrics. Elected active membership, American Pediatric Society (APS).

GINA BESAW
DR Residency Co-Coordinator

Received the Staff Outstanding Performance award
"consistently goes above and beyond expectations"
"very easy to get in contact with, has a great attitude, and is intelligent"
"has especially gone out of her way to help..."

SHEERAH COE, MA
Communications Director

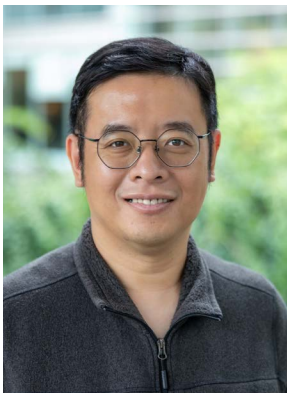
Received Vickie Holland Memorial award
"...ALWAYS willing to help."
"...always enthusiastic and inherently motivated."
"Embodies being an approachable team member and cultivates the positive culture we aim to build in the Department."
"...a joy to work with and a major asset to the Department."

LYNN FORDHAM, MD
Professor, Pediatric Imaging

Earned a RNSA Quality Essentials Certificate 2024.

DANICA GRANT
Undergraduate researcher in the ENHANCE Lab

Received the UHMS President's award for Best Overall Resident/ Trainee Poster Presentation at the joint AsMA and UHMS conference.



SHENG-CHE "ALEX" HUNG, MD, PhD
Associate Professor, Neuroradiology

Named distinguished reviewer, AJR.

KHOI HUỲNH
Postdoctoral research associate in the Pew-Thian Yap lab

His research has earned him a prestigious Summa Cum Laude Merit award from the International Society for Magnetic Resonance in Medicine (ISMRM).

Highlights and Honors

VALERIE JEWELLS, DO
Professor, Neuroradiology

American Journal of Neuroradiology (AJNR) distinguished reviewer.

MAUREEN KOHI, MD
Ernest H. Wood Distinguished Professor and Chair

Honored by SIR as the Women in IR (WIR) Champion award recipient. This prestigious honor is awarded annually to someone who has demonstrated dedication to advancing women in IR.

MUTHU KUMAR SAKTHIVEL, MD
Assistant Professor, Cardiothoracic Imaging

Elected as a fellow of the Society for Cardiovascular MR (FSCMR).

YUEH LEE, MD, PhD
Professor, Neuroradiology

Named inaugural member to National Academy of Inventors Chapter and is named a 2025 senior member of the National Academy of Inventors (NAI). Fellow of the American Society of Functional Neuroradiology.

DAVID MAURO, MD
Chief and Associate Professor, Interventional Radiology

Honored with fellowship in the Society of Interventional Radiology (FSIR).

MATTHEW MAURO, MD
James H. Scatliff Distinguished Professor, Abdominal Imaging

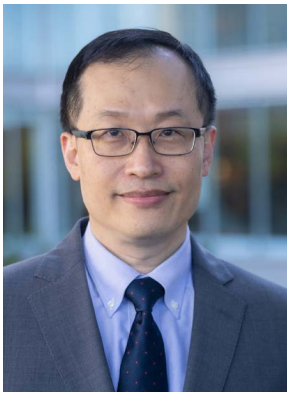
2025 SIR Foundation's Leaders in Innovation award recipient.

JOHN NAZARIAN, MD
Chief and Associate Professor, Emergency Radiology

He received the UNC Department of Emergency Medicine Ectopic Attending Award for 2025, awarded to an educator outside of EM for outstanding dedication to teaching residents.

GLORIA SALAZAR, MD
Associate Professor, Interventional Radiology

2025 SIR Annual Meeting Chair.



HYEON YU, MD
Professor, Interventional Radiology

Award for outstanding service to the journal for the most reviews carried out in 2023, CVIR. Distinguished Reviewer, AJR (American Journal of Roentgenology). 2024 Radiology Artificial Intelligence Editor's Recognition Award for reviewing with special distinction.

XINRUI YUAN
Ph.D. Candidate, Biomedical Engineering, overseen by Gang Li

Awarded the Women in MICCAI (WiM) Best Oral Presentation award, in international conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI) 2024.

CARLOS ZAMORA, MD
Chief & Professor, Neuroradiology

RSNA Cum Laude exhibit and ACR CPI Editor's Choice 2025.

Awards & Recognition

MARIANA DEFREITAS, MD
Assistant Professor, Emergency Radiology

Received the AAR Clinical Effectiveness in Radiology Research Academic Fellowship (CERRAF) award. Recipients receive $140,000 over two years ($70,000/year) payable to their institution. This includes up to $10,000 per year for supporting research staff/materials and another $10,000 total towards coursework.

CAROLINA GUIMARAES MD
Professor & Chief, Pediatric Imaging

Co-investigator of the Fetal Magnetic Resonance Imaging (MRI) and Congenital Limb Anomalies: Impact on Prenatal Counseling and Understanding Brain Functional Networks. Co-PI on Accuracy of Ultrasound for the Evaluation of Percutaneous Gastrostomy Tube Position and Leakage – Departmental seed grant UNC Radiology.

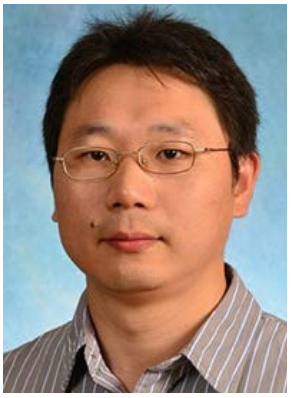
LOUISE HENDERSON, PhD, MSPH
Professor, Radiological Sciences

Received an estimated $3.2 million award from the National Cancer Institute for her research titled *Lung Cancer Screening: Cumulative Risk and Multilevel Impact of False Positive Findings.*

Awarded an NOA for her new 5-year R01 titled, "OPTimizing surveillance in lung cancer survivors with novel IMAging biomarkers and deep-learning (OPTIMAL)" with a start date of 1/1/2025 and year 1 total costs = $968,999. This is a collaboration with Kaiser Permanente Northern California (MPI: Lori Sakoda), Mass General (MPI: Florian Fintelmann), and MIT (co-I: Regina Barzilay).

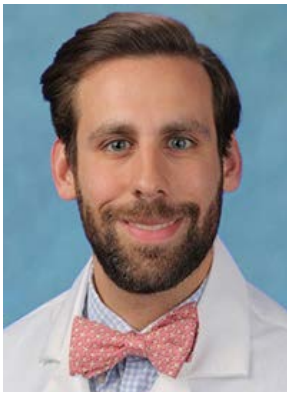
YUEH LEE, MD, PhD
Professor, Neuroradiology

Awarded a Creativity Hubs award from the UNC Office of Vice Chancellor for Research for his project titled *Advanced Medical Screening in Underserved Populations using a Transportable Nanotube Enabled Imaging System – the Carolina CONNECT (CarbON Nanotube Enabled sCreening Tomosynthesis)*. Dr. Lee will receive $325,000 to pursue this research.



GANG LI, PhD
Professor, Radiological Sciences

Awarded a $2.1 Million grant from the National Institutes of Health for his research titled *Continued Development of Infant Neuroimaging Analysis Tools.*



Co-investigator of Accuracy of Ultrasound for the Evaluation of Percutaneous Gastrostomy Tube Position and Leakage – Departmental seed grant UNC Radiology.

WILL PRYOR, MD
Assistant Professor, Pediatric Imaging

Awarded a UNC Lineberger Development Award for his project, *Characterization of the Hypoxic Tumor Microenvironment with Blood Oxygen Level Dependent Magnetic Resonance Imaging for the Prediction of Hepatocellular Carcinoma Response to Yttrium-90 Selective Internal Radiation Therapy.*

ALEX VILLALOBOS, MD
Assistant Professor, VIR

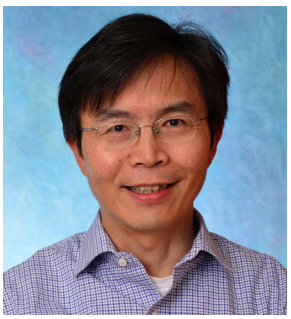
Awarded a $2.1 Million grant award from the National Institute of Health for his research titled *Continued Development of Infant Neuroimaging Analysis Tools.*

LI WANG, PhD
Associate Professor, Radiological Sciences

Received an estimated $400,000 award from the Tripill Biotechnology, Corp. National Cancer Institute for her research titled, *The Development of Radiolabeled PSMA Agent with Low Salivary Gland Uptake.*

ZHANHONG WU, PhD
Associate Professor, Radiological Sciences

PEW-THIAN YAP, PhD
Professor, Radiological Sciences



WEILI LIN, PhD
Professor, Radiological Sciences

UNC Radiology Researchers Secure Prestigious NIH Funding in a Highly Competitive Year

In a highly competitive year for federal research funding, the UNC Department of Radiology has achieved remarkable success: five active R01 grants have been awarded to faculty in fiscal year 2025. These prestigious, multi-year National Institutes of Health (NIH) awards support high-impact research and underscore the Department's growing national leadership in imaging science.

Two faculty members, Dr. Weili Lin and Dr. Pew-Thian Yap (PT Yap), rank among the Top 5% of NIH-funded principal investigators (PIs) in Radiology nationwide. Dr. Lin holds the 14th position, while Dr. Yap ranks 32nd in total NIH funding among radiology researchers—an impressive distinction reflecting their pioneering contributions and sustained commitment to advancing the field.

Dr. Yap's recent accomplishments are especially noteworthy. In the 2024–2025 fiscal year, he received two R01 grants totaling more than $6 million. From the National Institute of Neurological Disorders and Stroke (NINDS), he was awarded $3.1 million to develop optimized high-resolution magnetic resonance fingerprinting with cloud-based reconstruction—an effort poised to revolutionize brain imaging by accelerating MRI acquisition and enabling large-scale computational processing. From the National Institute of Mental Health (NIMH), he received another $3.1 million to create advanced imaging and computational tools for studying early brain development. This project will provide critical insights into infancy and early childhood, formative years that shape lifelong cognitive and neurological health.

Together, these accomplishments highlight UNC Radiology's commitment to research excellence and its vital role in shaping the future of medical imaging, neuroscience, and mental health.

Lectureships

Over the past year our lectureships have funded educational opportunities for trainees and faculty by hosting expert speakers for special learning opportunities.

26th ANNUAL SCATLIFF LECTURE
August 6, 2024
—
Jonathan Dillman, MD, MSc
Associate Chief, Research; Medical Director, Imaging Research Center, William S. Ball Chair of Radiology Research, Cincinnati Children's Hospital Medical Center

Promoting Translational Research in Radiology: Challenges and Solutions

WOOD LECTURE
November 15, 2024
—
Laurie A. Loevner, MD
Professor and Chief, Neuroradiology Professor of Radiology in Neurosurgery & Ophthalmology at The University of Pennsylvania

Back to the Future: Creating a Career Fit for You Through Clinical, Research and Patient Collaborations

SCATLIFF LECTURE
May 2, 2025
—
Sarah D. Bixby, MD, MBA
Paul Kleinman Chair of Musculoskeletal Imaging, Boston Children's Hospital
Associate Professor Radiology Harvard Medical School

Leveraging AI for Efficient, Fast, High-Resolution Imaging in Children

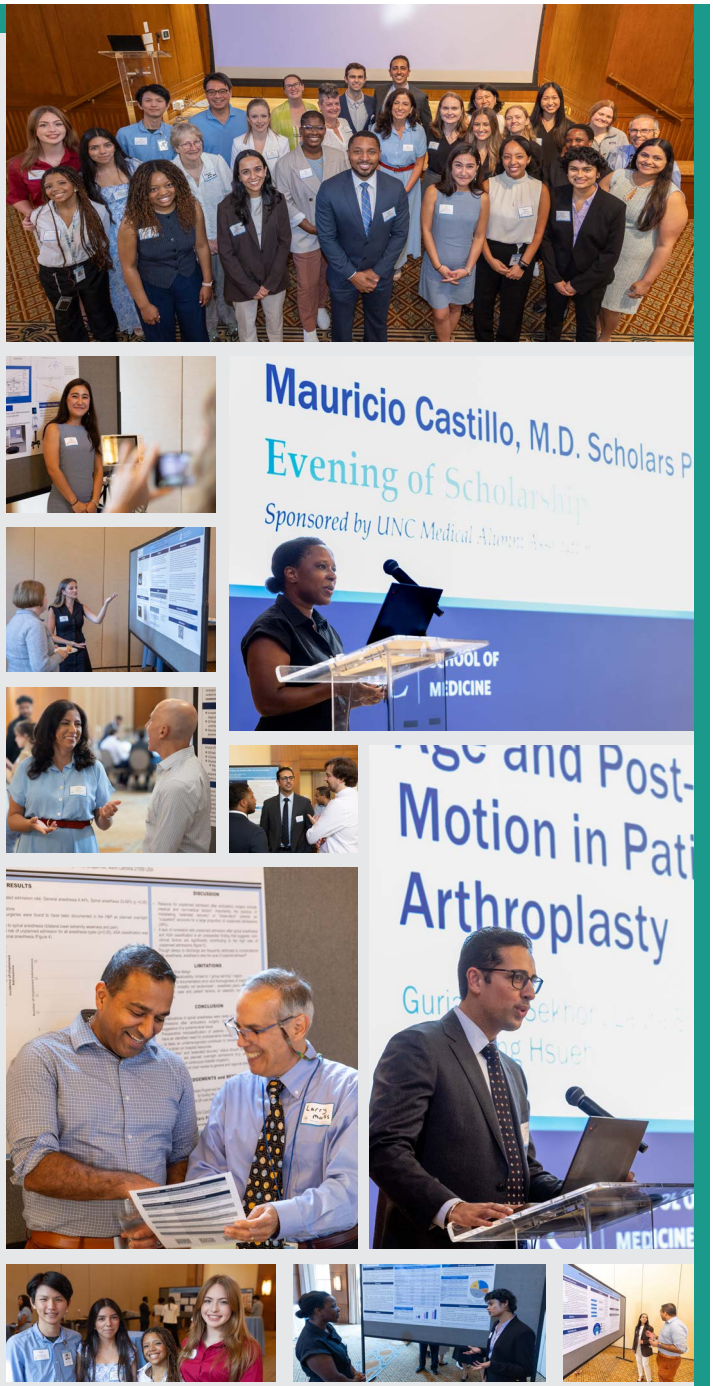
JOSEPH K.T. LEE LECTURE
May 30, 2025
—
Judy Yee, MD, FACR
Professor and University Chair Department of Radiology Albert Einstein College of Medicine Montefiore Health System

CT Colonography: Pearls, Pitfalls and Leadership Tips

6th ANNUAL NEURORADIOLOGY SPRING FELLOW LECTURE
June 6, 2025
—
Haris Sair, MD
Professor of Radiology and Director, Division of Neuroradiology at Johns Hopkins University School of Medicine

Resting-State Functional Mri: Principles And Clinical Applications For Treatment Planning

2025 Castillo Scholars Program



Top to bottom, left to right, Castillo Scholars with Drs. Gloria Salazar, Sarah Nyante, school of medicine leadership, and Department liaisons. Emergency Medicine Scholar Julia Godwin posing with her research poster. IR Scholar Jessica Beltrani presents her poster to an attendee. Dr. Sarah Nyante opens up the Evening of Scholarship and introduces the first speaker. Dr. Gloria Salazar speaks with surgery scholar Ryan Sellers during the event. Orthopedic scholars Gurjant Skehon and Joshua Taylor speak with an attendee. Orthopedic scholar Gurjant Skehon presents his oral presentation. Attendees Xinjie Yu, Rosely Resendiz-Alas, Maleiha Vance, and Savannah Stewart. Dr. Sarah Nyante listens to Neurology scholar Ruchi Dudhat as they talk through their presentation. Physical Medicine & Rehabilitation scholar Divya Mehta presents her research to a faculty attendee.

The Mauricio Castillo, MD, Scholars Program continues to open doors and change lives—creating transformative opportunities for medical students who are aspiring to thrive in competitive specialties. Now in its fifth summer, this prestigious program provides a powerful blend of educational enrichment, hands-on research, clinical shadowing, and one-on-one mentorship that equips future physicians with the tools they need to succeed.

This year, sixteen outstanding first-year medical students were selected as 2025 Castillo Scholars. Each received a $5,000 stipend to support their participation in the intensive eight-week summer experience—an investment in talent, passion, and purpose.

The program launched on May 28th with a warm and inspiring kickoff reception at the Carolina Club, where scholars were welcomed by Dr. Gloria Salazar. The evening offered an invaluable chance for scholars and mentors to connect and lay the foundation for a summer of collaboration and discovery.

Over the next two months, scholars immersed themselves in impactful projects across clinical, academic, and research settings—each forging a clearer path toward a specialty residency.

The summer culminated on July 24th with the highly anticipated Evening of Scholarship, generously sponsored by the UNC Medical Alumni Association. Held once again at the Carolina Club, the celebration spotlighted the Scholars' remarkable achievements. With oral and poster presentations, each student proudly shared their work, highlighting their growth and the depth of their contributions.

This summer marks a bittersweet milestone: it is the final year of the program. We encourage Departments, and specifically their CSP champions/liaisons, to engage with OMSE and OMSR leadership on future opportunities to partner on student research initiatives.

To our 2025 Castillo Scholars: congratulations on an incredible summer, and best of luck as you step into your second year of medical school. We can't wait to see where your talents take you.

UNC Radiology Shines at RSNA 2024: Innovation, Impact, and a Rooftop Reunion

It was a an incredible year for UNC Radiology at RSNA 2024.

What a year for UNC Radiology! From groundbreaking presentations to unforgettable reunions, RSNA 2024 proved to be a momentous milestone for our Department. Held from November 30 to December 4 at Chicago's iconic McCormick Place, this year's Radiological Society of North America (RSNA) Annual Meeting spotlighted the powerful role of radiology in shaping the future of precision medicine—and UNC Radiology was right at the heart of the action.

The theme was "Building Intelligent Connections," emphasizing the role of AI in radiology and the importance of connections between people and technology. The meeting offered a comprehensive program including plenary sessions, educational courses, scientific presentations, and technical exhibits.

- Some specific program highlights included AI Theater: Daily presentations from companies on cutting-edge AI technologies.
- Radiology Reimagined: Showcased real-world clinical scenarios integrating AI into radiology workflows.
- RSNAI Resource Center: Offered insights into RSNA's AI initiatives, including the Imaging AI Certificate Program and MIDRC.
- Vendor Workshops: Provided hands-on experience with industry systems.
- Lunch & Learns: Featured talks by company leaders and clinicians on recent innovations.
- RSNA Innovation Theater: Hosted live demonstrations of the latest imaging advancements.
- Virtual Industry Presentations: Enabled remote access to select company presentations.

Our faculty, trainees, and alumni made a bold mark across the conference halls, with major research contributions, leadership roles, and collaborative innovation on full display. Representing a vibrant global community of radiology professionals from over 150 countries, RSNA 2024 was more than a meeting—it was a celebration of what's next in our field.

But the true highlight? The UNC Radiology Alumni Reception.

On Sunday, December 1, we took to Cindy's Rooftop—high above the lights of downtown Chicago—for our third annual RSNA Alumni Reception. The skyline was dazzling, but nothing outshone the joy of reconnecting with UNC alumni, faculty, and trainees. From hugs and handshakes to shared stories and laughter, it was a heartfelt reminder that our Carolina radiology family stretches far beyond campus.

The evening was a mix of nostalgia and momentum—celebrating where we've been and where we're going. As we looked around the room, we saw leaders shaping the future of medicine, mentors who laid the foundation, and young talent ready to rise.

To everyone who joined us: thank you. You are the heart and soul of UNC Radiology. Your dedication and excellence are what make our Department one of the strongest and most connected in the country.

Looking ahead, we're excited to keep building on this momentum. Please be on the lookout for the rooftop reception at the 2025 RSNA conference.

UNC

SCHOOL OF MEDICINE

Radiology

Department of Radiology
2000 Old Clinic Bldg
CB #7510
Chapel Hill, NC 27599

@uncradiology

Vision

To be the premier Department of Radiology in the Southeast.

Mission

Our mission is to deliver compassionate clinical care, advance healthcare through innovative research, and train the future generation of radiologists and scientists.

Radiology By the Numbers

65 Clinical Faculty

23 Radiological Sciences Faculty

16 Fellows

44 Residents

#10 NIH PUBLIC RANKING *in FY25*

Over **$12 Million** in funding for FY25