UNC

SCHOOL OF MEDICINE

Radiology

SEMI-ANNUAL UPDATE

January - June 2024

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Cover image: Adobe stock AI image of little girl and her brain.

N THE SOUTHEAST

Message From the Chair

"As I reflect on the start of 2024, I am filled with pride over the remarkable achievements and progress made by our faculty, staff, and trainees. This year has been a period of significant investment towards our goal of becoming the leading Department of Radiology in the Southeast.

In this newsletter, you'll find highlights of the exceptional honors, awards, publications, and grants our clinical and radiological sciences faculty, staff, and trainees have earned over the past year.

To bolster our three pillars of patient care, education, and research, we have focused on expanding and enhancing our incredible team of staff, clinical faculty, radiological sciences faculty, and trainees. They are the foundation of our Department and essential to achieving our objectives in each area.

Our contributions to patient care and the broader health system are widely recognized. We are thrilled to announce the opening of our new VIR office-based spacelab, the UNC Health Endovascular Center. Additionally, we enjoyed many memorable moments together throughout the year, from happy hours and conference events to staff outings.

It is with mixed emotions that we had to say goodbye to Mauricio Castillo, MD, a highly esteemed member of our Neuroradiology faculty as he retired on June 31st. Mauricio has been an integral part of our Ddepartment, contributing significantly to our mission of excellence in patient care, education, and research. Throughout his distinguished career, Mauricio has been a mentor to countless trainees, a trusted colleague, and a pioneer in the field of neuroradiology. His dedication, expertise, and compassionate care have left an indelible mark on our department and the broader medical community. We look forward to honoring his legacy through continued excellence in our work. Please join us in expressing our deepest gratitude and best wishes to Mauricio as he embarks on this new chapter.

We are thrilled to announce a new prospective randomized controlled trial evaluating ovarian vein embolization (OVE) for reducing pain in women suffering from chronic pelvic pain due to pelvic venous disease (PeVD). This groundbreaking study was unveiled at the 2024 Society of Interventional Radiology (SIR) Meeting, with Dr. Gloria Salazar serving as the National Co-primary investigator. This trial represents a significant step forward in our efforts to provide effective treatments for women with PeVD, and we are eager to see the impact of this research on patient care. Stay tuned for more updates as the study progresses!

I am immensely proud of our team, their dedication, and their unwavering commitment to our vision of making UNC Radiology the best in the Southeast!"

Maureen Kohi

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

Leaving Behind an Impactful Legacy

With bittersweet emotions, we announce Mauricio Castillo, MD, FACR, has retired. His last day was June 30, 2024. The department and the neuroradiology division will deeply feel Dr. Castillo's retirement, but it is a well-deserved respite for him.

Mauricio Castillo was born in Guatemala. He obtained his medical degree from the University of San Carlos. After 18 months as a Research Fellow at MD Anderson Hospital in Houston, he completed a residency in Diagnostic Radiology at the University of Miami, followed by a 2-year Neuroradiology Fellowship at Emory University in Atlanta. He returned to the University of Texas in Houston before being recruited to UNC Radiology in 1992 by the Department's third Chair, Dr. Joseph K.T. Lee. Dr. Castillo took the helm as UNC's Neuroradiology Division Chief on Day 1, serving for over 28 years.

Over three decades, his approach to academic radiology established Dr. Castillo within the institution and his field and earned him numerous top leadership posts and honors, among them: UNC Neuroradiology Division Chief; UNC Neuroradiology Fellowship Program Director; two-time Charles A. Bream Teaching Award recipient; President and Gold Medalist – American Society of Neuroradiology; President and Gold Medalist – American Roentgen Ray Society (ARRS); Editor in Chief – American Journal of Neuroradiology; American College of Radiology – Fellow / first Jackson Education Fellow; ARRS Figley Editorial Fellow, and Co-founder – American Society of Pediatric Neuroradiology (ASPNR). In 2022, he served as President of the Symposium Neuroradiologicum, the world's oldest neuroradiology meeting, and is a diplomate of the American Board of Radiology with a certificate of Added Qualifications in Neuroradiology. In 2023, he was honored with the UNC Academy of Educators "Lifetime Teaching Award."

"Mauricio's retirement marks the end of an era for our division. His leadership, mentorship, and unwavering commitment to excellence have profoundly shaped our practice and culture. His scholarly, societal, and editorial accomplishments have greatly benefited the field at large. Mauricio's legacy will continue to inspire us, and we are committed to carrying forward the values he championed," says Carlos Zamora, Neuroradiology Chief.

Dr. Castillo's contributions to education, patient care, and research are unparalleled. He has published nearly 700 articles and 30 books, has been a visiting professor at more than 50 institutions, and delivered 1200 invited lectures. His impact extends beyond UNC, as the Neuroradiology fellowship he led has trained over 70 ACGME-approved fellows and hosted over 100 visiting scholars.

"Dr. Castillo exemplifies the finest qualities of UNC, leaving an indelible mark on countless residents, fellows, researchers, and clinical colleagues locally and globally," says Dr. Lauren Burke, Executive Vice Chair. "Renowned for his grace, expertise, and approachability, he has profoundly shaped our community and beyond. Working alongside him has been a privilege, and we deeply appreciate his lasting influence."

In 2016, Dr. Castillo was named the James H. Scatliff Distinguished Professor of Radiology. In February 2021, he was named the first Matthew A. Mauro, MD, Distinguished Professor of Radiology. When named to his second distinguished professorship, Dr. Castillo stood unquestionably among UNC Radiology's top faculty radiologists over its almost 70-year history.

"UNC Radiology is eternally grateful to Mauricio for his commitment to clinical excellence, outstanding educational efforts, and scholarly accomplishments," says Dr. Maureen Kohi, MD, Chair and current Ernest H. Wood Distinguished Professor. "His unwavering dedication, innovative approach, and passion for trainee education have profoundly impacted our community and set a high standard for future generations. He will be greatly missed."

UNC Radiology Opens UNC Health Endovascular Center!

We are thrilled to announce the much-anticipated opening of the UNC Health Endovascular Center, a testament to our commitment to delivering world class healthcare focusing on patient well-being. Meticulously designed with our patients in mind, this state-of-the-art facility provides a comprehensive range of services offered by our UNC Health providers. We are excited by this collaboration between UNC Radiology and our Nephrology partners in the UNC Department of Medicine. We have already started seeing patients at the new facility, and so far, the feedback has been outstanding.

"I am thrilled and proud to be part of an organization that works collaboratively with our UNC Health and external partners to provide excellent clinical care and convenience to our patients," says Maureen Kohi, MD, Ernest H. Wood Distinguished Professor and Chair of UNC Radiology.
The UNC Health Endovascular Center, conveniently located near I-40, boasts expanded services utilizing cutting-edge equipment, ensuring optimal patient care. Our newly renovated location is a testament to our dedication to innovation. It offers the added convenience of free parking right in front of our building, providing a stress-free patient experience. We are very proud of the outstanding and dedicated staff we have assembled and are excited about the future possibilities this center can provide.

Services offered at the UNC Health Endovascular Center include:

- Vascular Access, including Ports and Tunneled Lines:** Our experienced team specializes in providing advanced vascular access solutions, ensuring streamlined and effective care.
- Uterine Artery Embolization: Tailored to meet the unique needs of our patients, this service offers a minimally invasive solution for patients with symptomatic uterine fibroids and/or adenomyosis.
- Prostate Artery Embolization: Utilizing the latest techniques, our team is dedicated to providing personalized care for patients with benign prostatic hyperplasia.
- Kyphoplasty: A cutting-edge procedure for addressing painful spinal compression fractures, promoting enhanced patient mobility and comfort.
- Dialysis Population Support: Our comprehensive support services cater specifically to the dialysis population, ensuring they receive the specialized care they deserve.

"Prompt access to convenient expert vascular access care is core to providing excellent care for individuals requiring maintenance hemodialysis," says Gerald Hladik, MD, Doc J. Thurston Distinguished

Professor of Medicine and Chief of the Nephrology and Hypertension Division. "The UNC Health Endovascular Center offers the ability to deliver expeditious care for this vulnerable population by clinicians on the forefront of vascular access care."

"Collaborating with numerous people from different areas in order to bring this center to life has been a gratifying journey. And, the passion and dedication that members of our organization have displayed making this center a reality has been truly inspiring. It has been clear since the early planning meetings to the present time, our team would not settle for anything less than excellence in all areas, and so far, the efforts put forth and the quality of care delivered in the initial weeks of operation have been so impressive. The skill and dedication of the staff has not only met, but surpassed our high expectations," says Charles Burke, MD, Medical Director of the UNC Health Endovascular Center.

At the UNC Health Endovascular Center, we pride ourselves on our commitment to advancing healthcare, and we look forward to continuing to serve our community with excellence. We are excited about this new milestone as we embark on a journey to elevate the standard of care in endovascular services and provide care to all North Carolinians. We are ready to welcome you and your patients to our new facility.

2024 Resident and Fellow Graduation Ceremony

On Saturday June 22nd UNC Radiology hosted the 2024 Residency and Fellow Graduation at the Chapel Hill Country Club.

The event brought together graduates, their families, and faculty for an evening that encompassed a cocktail hour, awards, and dinner. It was a heartfelt gathering to celebrate and pay tribute to the remarkable accomplishments of our graduating residents and fellows.

Here are the distinguished individuals who have successfully completed their respective programs:

**Graduating Diagnostic Residents: **
Dr. Tony Dyer
Dr. James Epps
Dr. Austin Evans
Dr. Lauren Hickman
Dr. Joshua Schoen
Chief Resident Dr. Marie Vogel
Chief Resident Dr. Lawrence, "Jack" Wood.

**Graduating Vascular and Interventional Resident – Integrated: **
Dr. Lourens du Pisanie, Jr.
Senior IR Chief Resident: Dr. Venkateswaran Ramakrishnan

Graduating Vascular and Interventional Resident – Independent:
Dr. Marlee Croissy
Dr. Joshua Harford

**Neuroradiology Fellows: **
Dr. Dean Homen
Dr. Fernando Rincon-Cortez
Dr. Zafir Syed

**Abdominal Imaging Fellows: **
Dr. Taylor Gunnell
Dr. Jacob Nelson
Dr. Elise Maggioncalda
Dr. Marcelo Takahashi

**Breast Imaging Fellow: **
Dr. Chris Burns
Dr. Hieu Diep

**Cardiothoracic Imaging Fellow: **
Dr. Selima Siala

**Musculoskeletal Imaging Fellow: **
Dr. Andrew Isbell

The highlight of the evening was the award ceremony, where several outstanding individuals were recognized for their exceptional contributions:

Dr. Jack Wood received the Resident Teaching Award, a well-deserved honor for his dedication to education, including engaging and teaching junior residents and medical students, as recognized by the faculty.

Dr. Ben Brown was presented with the Resident Service Award in acknowledgment of her consistent commitment to going above and beyond her expected responsibilities, serving as a role model and department ambassador to advance the department's missions, as noted by the faculty.

Dr. Josh Schoen was the recipient of the Clinical Excellence Award, commended by the faculty for her outstanding clinical knowledge, diagnostic and interventional skills, and mastery across the field of Radiology.

The evening also featured the recognition of two exceptional faculty members:

Dr. Steven Rowe was the proud winner of the Charles Bream Award, a distinction nominated and selected by residents in recognition of his teaching excellence, having received the most nominations.

Weili Lin, PhD was honored with the J. Keith Smith Faculty Mentoring and Development Award, recognizing his substantial contributions to mentoring, fostering growth, collaboration, and excellence within the academic community.

Congratulations to all our graduates! Your hard work and dedication have led you to this moment, and we are immensely proud of your accomplishments. As you embark on the next phase of your career, we wish you the very best.


UNC RADIOLOGY
2024
GRADUATION

New Residents

DIAGNOSTIC RADIOLOGY

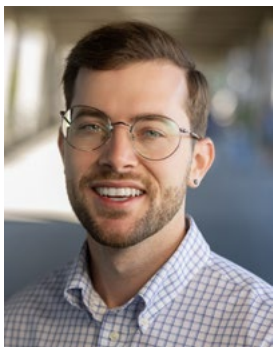
SHAWN AHUJA, MD
The University of North Carolina

CANDLER BLAKE, MD
Mercer University School of Medicine

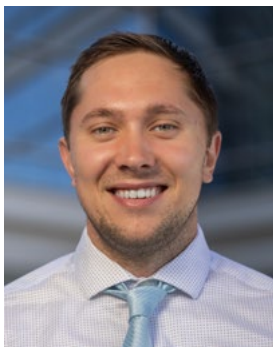
CAROLINE DAY, MD
McGovern Medical School University of Texas Health Science Center at Houston

VEDANG PATEL, MD
The University of North Carolina

RON PERETS, MD
Drexel University



TYLER ROGERS, MD
The University of North Carolina



ANDREW SCHULER, MD
The University of Illinois College of Medicine at Peoria

SRIRAMKUMAR SRIDHARAN, MD
Wake Forest University

SARAH SWINEHART, MD
The University of Virginia

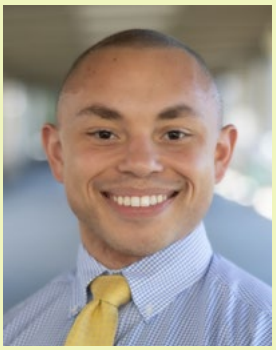
INTEGRATED VASCULAR & IR

NAISHAL PATEL, MD
The University of North Carolina

VIVEK SOMASUNDARAM, MD
Mayo Clinic Rochester

KEVIN WANG, MD
The University of South Florida

INDEPENDENT VASCULAR & IR



JACK WOOD, MD
Diagnostic Residency: University of North Carolina Chapel Hill

JARED WEINAND, MD
Diagnostic Residency: University of North Carolina Chapel Hill

AUSTIN EVANS, MD
Diagnostic Residency: University of North Carolina Chapel Hill

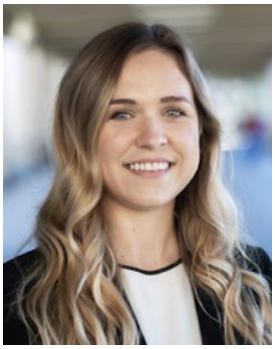
New Fellows

ABDOMINAL IMAGING

MITCHELL ALLEN, MD
DR Residency: Larkin Community Hospital

EVAN HARRISON MD
DR Residency: Brookwood Baptist Health

BREAST IMAGING



LAUREN HICKMAN, MD
DR Residency: University of North Carolina

MARIE VOGEL, MD
DR Residency: University of North Carolina

CROSS-SECTIONAL IMAGING

SELIMA SIALA, MD
DR Residency: Public Hospital of Tunisia

MUSCULOSKELETAL IMAGING

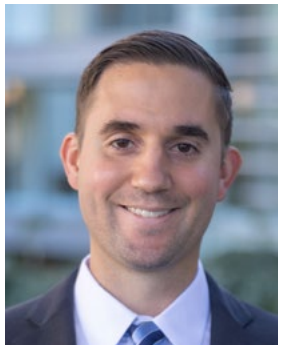
PRANAV AJMERA, MD
DR Residency: Dr DY Patil Medical College, Hospital and Research Center

SHWETA KATERIA, MD
DR Residency: Yashoda Hospitals Malakpet, Hyderabad, Indi

NEURO-IR IMAGING

AMIT MEHTA, MD
Resident Physician in Neurology: MedStar Georgetown University Hospital

ALEJANDRO BREGNI, MD
DR Residency: University of South Alabama



TONY DYER, MD
DR Residency: University of North Carolina

JAMES EPPS, MD
DR Residency: University of North Carolina

JOSHUA SCHOEN, MD
DR Residency: University of North Carolina

NOMAN KHAN, MD
DR Residency: Aga Khan University

NEURORADIOLOGY

DR = Diagnostic Radiology

Salazar a Co-Principal Investigator on EMBOLIZE Trial for Women

March 25, 2024—This article was featured in Endovascular Today.

A new ground-breaking clinical trial exploring treatments for pelvic venous disorders has launched

Gloria Salazar, MD
Associate Professor
Vice Chair of Health Equity & Community Engagement

A new prospective randomized controlled trial evaluating ovarian vein embolization (OVE) to reduce pain in women experiencing chronic pelvic pain due to pelvic venous disease (PeVD) was announced at the 2024 Society of Interventional Radiology (SIR) Meeting in Salt Lake City, Utah.

The EMBOLIZE trial is a multispecialty, investigator-initiated collaboration between the SIR Foundation and the VIVA Foundation, in partnership with Penumbra, Inc. The National Co-Principal Investigators are Ronald S. Winokur, MD, FSIR, Professor of Clinical Radiology at Weill Cornell Medicine, and Gloria Salazar, MD, FSIR, Associate Professor of Radiology at the University of North Carolina at Chapel Hill.

Patients who are over the age of 18 and have uterine, ovarian, or pelvic veins that are dilated and causing pain will be enrolled in the trial. EMBOLIZE will compare changes in pain score on a visual analog scale starting 4 weeks before treatment and continuing through 6 months postprocedure and evaluate outcomes of OVE for chronic pelvic pain of venous origin. Other quality-of-life improvements, pelvic vein varices, and changes in pain medication usage will also be evaluated. After the 6-month study period, patients in the control arm will be unblinded and have the option of receiving treatment with embolization.

EMBOLIZE investigators and representatives from SIR, VIVA, and Penumbra met with the media to discuss pelvic venous disease and the potential impact a randomized trial studying potential therapies could have, and there was an additional town hall session on the trial for SIR meeting attendees.

“Pelvic pain in women is extremely common, with massive impacts on quality of life,” said Dr. Winokur. “A randomized controlled trial

evaluating outcomes after OVE and PVE will potentially have significant impacts on daily pelvic pain symptoms to effectively change the quality of life in this patient population."

Maureen Kohi, MD

"Women living with pelvic pain often suffer in silence because of a lack of awareness of pelvic venous disease and the minimally invasive treatment options available," said Maureen P. Kohi, MD, FSIR, in the SIR press announcement. "This study will solidify the role of OVE in the treatment of women experiencing pain from pelvic venous disease and will also provide the evidence needed to ensure insurance coverage for these treatments." Dr. Kohi is SIR Foundation Chair, a member of The VIVA Foundation Board of Directors, and Chair of the Department of Radiology at the University of North Carolina at Chapel Hill.

Dr. Salazar and EMBOLIZE investigator Neil Khilnani, MD, FSIR, expanded on the common scenario in which women do not have access to these procedures due to lack of payor coverage, pointing out that hysterectomy is often covered and offered as a potential option for these patients. Data from a randomized trial could help support the interventional option to payors, said Dr. Salazar, as well as raise public awareness of the condition and how it is diagnosed and potentially treated.

The panel acknowledged that pain is difficult to quantify and study. Dr. Khilnani, who is Professor of Clinical Radiology at Weill Cornell Vein Center, said that the EMBOLIZE trial plans to capture a variety of endpoints that are important to patients, with a specific focus on improving not just pain but quality of life. He noted that the trialists worked with gynecologists to better understand how such a study could be designed such that the data it produces will be meaningful to this community as well.

Dr. Kohi added that although EMBOLIZE is led by interventional radiologists, it is a multidisciplinary trial, with expert vascular surgeons represented in the steering committee and participating as site principal investigators.

Representing the industry sponsor at the media roundtable, Shruthi Narayan, Executive Vice President and General Manager of Penumbra's interventional business, expressed the company's enthusiasm in supporting the EMBOLIZE trial along with the SIR Foundation and VIVA Foundation in hopes of increasing awareness and opening up new treatment options for women with pelvic venous disease. In the SIR announcement, Penumbra's Chief Medical Officer James F. Benenati, MD, FSIR, added, "Patients with pelvic venous disease have few treatment options available to them. Dedicated to advancing innovative therapies that address a significant unmet need, Penumbra's support of this study will help provide clear evidence of the benefits of OVE and PVE to help patients worldwide."

Publications | January - June 2024

ABDOMINAL IMAGING

Fluoroestradiol PET-MRI Imaging for detection of Endometriosis Lesions and Symptom Correlation.
Oldan JD, Lee Y, Olinger K, Benefield T, Carey ET, Abu-Alnadi ND, Young SL. *American Journal of Nuclear Medicine and Molecular Imaging.* 2024;14(3):182-188. PMID: 39027645

Utility of tele-guidance for pointof-care ultrasound: a single center prospective diagnostic study.
Cal E, Gunnell E, Olinger K, Benefield T, Nelson J, Maggioncalda E, McGinty K. *Journal of Ultrasound.* 2024. PMID: 38340216

Inflammatory myofibroblastic tumor in a patient with X-Linked hypophosphatemia: A case of Occam's razor or Hickam's dictum?
Chowdry F, Miller KM, Altun E, Wobker SE, Gottesman GS, Al-Ahmadie H, Rose TL, Wallen EM, Milowsky MI. Urol Case Rep. 2024 Mar 13;54:102710. eCollection 2024 May. PMID: 38827529

Percutaneous Core Biopsy Devices: A Detailed Review and Comparison of Different Needle Designs.
Strnad BS, Kristeva M, Itani M, Fetzer DT, O'Connor SD, Patel MD, Middleton WD. *Ultrasound* Q 2024 Mar 1; 40(1):1-19. PMID: 37918119

Added Value of Contrast-enhanced US for Evaluation of Female Pelvic Disease.
Olinger K, Liu X, Khoshpouri P, Khoshpouri P, Scoutt LM, Khurana A, Chaubal RN, Moshiri M. *Radiographics.* 2024 Feb;44(2):e230092. PMID: 38175802.

Society of Abdominal Radiology Survey of Practice Patterns in using LI-RADS Treatment Response Criteria in the Evaluation of Post-treatment HCC.
Kamapath R, Mendiratta-Lala M, Jacoub J, Burke LMB. *Abdom Radiol.* 2023 Nov;48(11):3401-3407. PMID: 37658876

Use of cine images in standard ultrasound imaging: a survey of sonologists.
Thomas K, Burke LMB, McGettigan M. *Abdom Radiol.* 2023 Nov;48(11):3530-3536. PMID 37552240

BREAST IMAGING

Unknown Case: Non-mass Enhancement on Baseline MRI
Megan Kerbag, Cherie M Kuzmiak. *Journal of Breast Imaging*. 2024. PMID: 38833615

ACR Appropriateness Criteria® Imaging of Invasive Breast Cancer.
McDonald ES, Scheel JR, Lewin AA, Weinstein SP, Dodelzon K, Dogan BE, Fitzpatrick A, Kuzmiak CM, Newell MS, Paulis LV, Pilewskie M. *Journal of the American College of Radiology.* 2024 Jun 1;21(6):S168-202. PMID: 38823943

Meta-analysis: Radial Scar and Breast MRI.
Ferre R, Covington MF, Kuzmiak CM. *Academic Radiology.* 2024 May 7. PMID: 38714429

CARDIOTHORACIC IMAGING

Book Chapter:
Chronic fibrotic lung disease: Usual interstitial pneumonia. In Little BP, Elicker BM, Martinez-Jimenez S, eds High-Resolution Chest CT. Leesburg, VA: ARRS 2024.
Gruden JF, Sakthivel MK, Griffin WF, Green DB.

Comparing characteristics of individuals screened for lung cancer with 2021 versus 2013 USPSTF recommendations.
Henderson LM, Durham DD, Gruden J, Pritchard M, Lane L, Long J, Bellinger C, Rivera MP. *J Natl Cancer Inst.* 2024 Jun 24:djae141. Epub ahead of print. PMID: 38913873.

Assessment of atherosclerotic plaque burden: comparison of AI-QCT versus SIS, CAC, visual and CAD-RADS stenosis categories.
Khan H, Bansal K, Griffin WF, Cantlay C, Sidahmed A, Nurmohamed NS, Zeman RK, Katz RJ, Blankstein R, Earls JP, Choi AD. *Int J Cardiovasc Imaging.* 2024 Jun;40(6):1201-1209. Epub 2024 Apr 17. PMID: 38630211.

Practice patterns in reporting interstitial lung abnormality at a tertiary academic medical center.
Escalon JG, Podolanczuk AJ, Aronson KI, Legasto AC, Gruden JF, Lynch DA, Rachid L, Rabkova Y, Steinberger S. *Clin Imaging.* 2023 Dec; 104:10996.

MOLECULAR IMAGING & THERAPEUTICS

Utility of PSMA PET/CT in Staging and Restaging of Renal Cell Carcinoma: A Systematic Review and Metaanalysis.
Sadaghiani MS, Baskaran S, Gorin MA, Rowe SP, Provost JC, Teslenko I, Bilyk R, An H, Sheikhbahaei S. *J Nucl Med.* 2024 Jul 1;65(7):1007-1012. PMID: 38782453

Fluoroestradiol PET-MRI imaging for detection of endometriosis lesions and symptom correlation.
Oldan JD, Lee YZ, Olinger K, Benefield TS, Carey ET, Abu-Alnadi ND, Young SL. *Am J Nucl Med Mol Imaging.* 2024 Jun 15;14(3):182-188. PMID: 39027645

Axicabtagene ciloleucel vs standard of care in second-line large B-cell lymphoma: outcomes by metabolic tumor volume.
Locke FL, Oluwole OO, Kuruvilla J, Thieblemont C, Morschhauser F, Salles G, Rowe SP, Vardhanabhuti S, Winters J, Filosto S, To C, Cheng P, Schupp M, Korn R, Kersten MJ. *Blood.* 2024 Jun 13;143(24):2464-2473. PMID: 38557775

RECIP 1.0 Predicts Progression-Free Survival After [177Lu] Lu-PSMA Radiopharmaceutical Therapy in Patients with Metastatic Castration-Resistant Prostate Cancer.
Gafita A, Djaileb L, Rauscher I, Fendler WP, Hadaschik B, Rowe SP, Herrmann K, Solnes LB, Calais J, Rettig MB, Weber M, Farolfi A, Benz MR, Eiber M. *J Nucl Med.* 2024 Jun 3;65(6):917-922. PMID: 38637143

Implementation of PSMA PET/CT and alignment of ordering to SNMMI appropriate use criteria in a large network system.
Bennett R 4th, Li EV, Ho AY, Aguiar JA, Neill C, Rowe SP, Patel HD, Savas H, Ross AE.*Prostate.* 2024 Jun;84(8):717-722. PMID: 38450787

PSMA-Targeted Radiopharmaceuticals for Prostate Cancer Diagnosis and Therapy.
Oldan JD, Almaguel F, Voter AF, Duran A, Gafita A, Pomper MG, Hope TA, Rowe SP. *Cancer J.* 2024 May-Jun 01;30(3):176-184. PMID: 38753752.

Clinical implementation of cinematic rendering.
Brookmeyer C, Chu LC, Rowe SP, Fishman EK. *Curr Probl Diagn Radiol.* 2024 May-Jun;53(3):313-328. Epub 2024 Jan 19. PMID: 38365458.

The cutting edge: Promising oncology radiotracers in clinical development.
Oldan JD, Pomper MG, Werner RA, Higuchi T, Rowe SP. *Diagn Interv Imaging.* 2024 May 14:S2211-5684(24)00106-2. PMID: 38744576

Uterine Uptake of Estrogen and Progestogen-Based Radiotracers in Rhesus Macaques with Endometriosis.
Wilson RC, Link JM, Lee YZ, Oldan JD, Young SL, Slayden OD. *Mol Imaging Biol.* 2024 Apr;26(2):334-343. PMID: 37720028

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 Apr 8. PMID: 38587770

Deep Semisupervised Transfer Learning for Fully Automated Whole-Body Tumor Quantification and Prognosis of Cancer on PET/CT.
Leung KH, Rowe SP, Sadaghiani MS, Leal JP, Mena E, Choyke PL, Du Y, Pomper MG. *J Nucl Med.* 2024 Apr 1;65(4):643-650. PMID: 38423786

Prognostic Performance of RECIP 1.0 Based on [18F]PSMA-1007 PET in Prostate Cancer Patients Treated with [177Lu] Lu-PSMA I&T.
Hartrampf PE, Hüttmann T, Seitz AK, Kübler H, Serfling SE, Higuchi T, Schlötelburg W, Michalski K, Gafita A, Rowe SP, Pomper MG, Buck AK, Werner RA. *J Nucl Med.* 2024 Apr 1;65(4):560-565. PMID: 38453363

Positron Emission Tomography/Computed Tomography Transformation of Oncology: Multiple Myeloma.
Murtazaliev S, Rowe SP, Sheikhbahaei S, Werner RA, Sólnes LB. *PET Clin.* 2024 Apr;19(2):249-260. PMID: 38199914

Expanded experience with cardiovascular black blood cinematic rendering.
Brookmeyer C, Chu LC, Rowe SP, Fishman EK. *Emerg Radiol.* 2024 Apr;31(2):277-284. PMID: 38363407

CD38-Specific Gallium-68 Labeled Peptide Radiotracer Enables Pharmacodynamic Monitoring in Multiple Myeloma with PET.
Sharma AK, Gupta K, Mishra A, Lofland G, Marsh I, Kumar D, Ghiaur G, Imus P, Rowe SP, Hobbs RF, Gocke CB, Nimmagadda S.Adv Sci (Weinh). 2024 Apr;11(16):e2308617. PMID: 38421139

Erdheim-Chester Disease Occult on Radiographs and CT but Visible on MRI and PET.
Kim M, Rowe SP, Mehta TI. *Am J Case Rep.* 2024 Mar 30;25:e941169. PMID: 38553814

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 Mar 26:S1546-1440(24)00301-6. PMID: 38527643

Neurodiversity and Leadership.

MOLECULAR IMAGING & THERAPEUTICS CONTINUED

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Congratulations!

The University of North Carolina was the top TMIST site for the U.S. LAPS site! UNC Radiology came in #1 for Chapel Hill and #2 for the Hillsborough campus. UNC has accrued over 3,000 subjects for this ongoing clinical screening mammography trial. Congrats to PI Cherie Kuzmiak and the entire team, including Doreen Steed, Markeela Lipscomb, Carly Sronce, Adriana Delgado, Louis Murphy, Luigi Troiani, Tracy Carroll, and Desma Jones.

The Tomosynthesis Mammographic Imaging Screening Trial (TMIST) is the first randomized controlled trial that seeks to identify women in which digital breast tomosynthesis (DBT) may outperform (2D) digital mammography in reducing advanced breast cancer development. The study will create the world's largest curated dataset of breast cancer screening clinical data, images, and bio-specimens to help researchers tailor future screening to a woman's individual risk.

TMIST is enrolling 128,000 healthy women ages 45 to 74 at 130 sites throughout North America, South America, Europe, and the Far East.

Louise Henderson is Helping to Lead NIH Cancer Screening Study at UNC Lineberger!

February 1, 2024—This article was featured in Vital Signs by Lineberger Comprehensive Cancer Center

Louise Henderson,PhD, MSPH
Professor & Director of Epidemiology Research

UNC Lineberger Comprehensive Cancer Center has been selected as one of nine national research sites for the National Cancer Institute's (NCI), part of the National Institutes of Health, newly launched Cancer Screening Research Network (CSRN), which will evaluate promising and emerging cancer screening technologies.

Supporting the Biden-Harris Administration's Cancer Moonshot initiative, the CSRN will conduct large, multi-center cancer screening studies with diverse populations in a variety of healthcare settings. The studies are designed to identify technologies that can detect cancers and pre-cancerous lesions before symptoms develop, and thereby reduce cancer incidence and cancer-related morbidity and mortality.

"NCI has launched the Cancer Screening Research Network to evaluate a variety of different technologies for the purpose of cancer screening," said Lori M. Minasian, MD, deputy director of NCI's Division of Cancer Prevention. "Detecting cancer early is not enough to improve people's lives. Through the Cancer Screening Research Network, we're going to study whether using these new technologies will make a difference in people's lives."
Daniel Reuland, MD, MPH, Louise Henderson, PhD, MSPH, and Carrie Lee, MD, MPH, will lead the UNC Lineberger Accrual, Enrollment, and Screening Site (ACCESS) Hub.

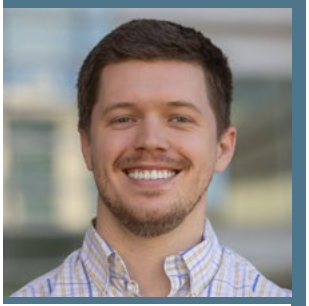
"In our role as an ACCESS Hub, we will build on UNC Lineberger's depth and breadth in designing and conducting innovative interventional cancer screening studies and clinical trials, and developing and analyzing large, complex data sets related to cancer screening," said Reuland, professor of medicine at the UNC School of Medicine and co-director of UNC Lineberger's Carolina Cancer Screening Initiative. "Equally important, by partnering with clinical sites from across the state of North Carolina, we'll be able to include a diverse population, in terms of race, age, education, income, and one that has a large rural component. This will help the research findings to be more widely applicable to populations and communities across the U.S."

The CSRN will investigate new and developing screening technologies to see if the insights they generate are effective, accurate and provide a clinical benefit for patients.

Later this year, the CSRN will initiate the Vanguard Study on Multi-Cancer Detection (MCD) tests. Also known as liquid biopsies, MCD tests analyze blood and other body fluids for biological substances, including circulating cancer DNA fragments, that could suggest the presence of cancer. The study will enroll up to 24,000 people to inform the design of a much larger randomized controlled trial involving about 225,000 people. This larger trial will evaluate whether the benefits of using MCD tests to screen for cancer outweigh the harms, and whether they can detect cancer early in a way that reduces deaths.

Welcome New Staff & Faculty

BLAIR ALLEN
Director of Operations & Strategy

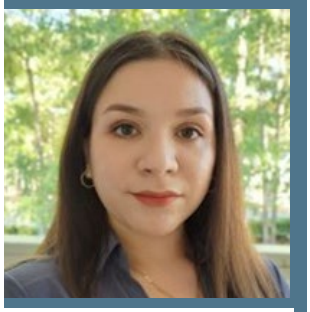


blair_allen@med.unc.edu
(919) 445-6301
role: oversees department operations and strategic expansion

FEN ANNARINO
Research Assistant

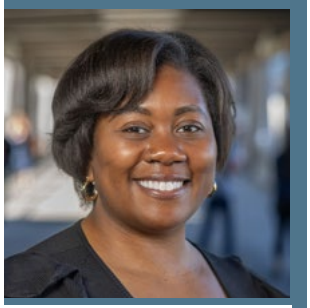
fen_annarino@med.unc.edu
(910) 447-9654
role: managing Muir Lab & conducting research studies

YASMIN ADAME-ZAVALA
Research Assistant



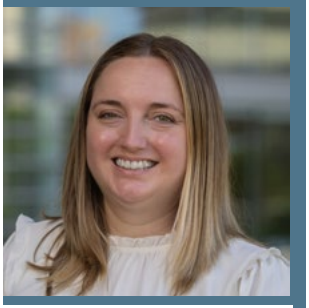
yasmin_adame-zavala@med.unc.edu
(984) 974-9362
role: focus on data abstraction, literature reviews & data checks

TRACY CARROLL, MHSA
Associate Clinical Research Coordinator



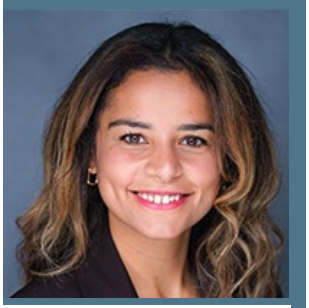
tracy_carroll@med.unc.edu
(984) 974-8157
role: data entry and patient recruitment

CAROLINE CARSWELL
IR Residency Program Coordinator



caroline_carswell@med.unc.edu
(919) 445-6985
role: supports the IR residents and program directors

SANDRA GAD
Post-doc Researcher



sandra_gad@med.unc.edu
(984) 974-9362
role: researcher with Dr. Nima Kokabi, VIR

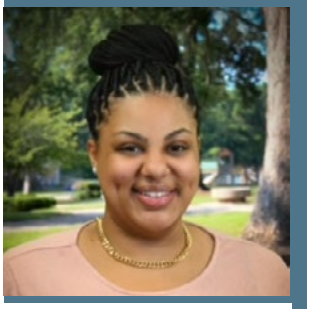
ZOBAER ISLAM, MD
post-doc research associate, molecular imaging

zobaer_islam@med.unc.edu
(984) 974-9362
role: researcher with Dr. Steven Rowe, MIT

PHYLLIS JENSEN
Contracts & Grants Pre-Award Research Admin

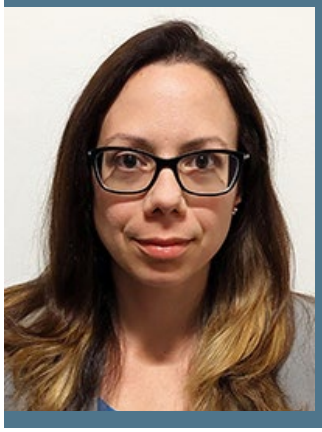
phyllis_jensen@med.unc.edu
role: pre-award support

BRITTANY WINSTEAD
Admin. Support Associate



brittany_winstead@med.unc.edu
(984) 974-9362
role: administrative support for NIR, Peds, and VIR

VIRGINIE PAPADOPOULOU, PhD
ASSOCIATE PROFESSOR , RADIOLOGICAL SCIENCES

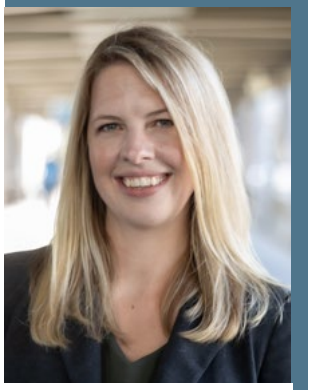


Virginie attended Imperial College London for her Master of Science in Physics and Theoretical Physics and then her PhD in Bioengineering. In this interview, Virginia discusses how her passion for scuba diving and becoming a divemaster and scuba diving instructor led her to her life's obsession, researching the question of how bubbles form in the body and how they can cause decompression sickness.

Her research revolves around ultrasound and microbubbles, their detection and gas physiology modulation in vivo, and their applications in addressing today's needs in biomedical disease and human performance applications. Her team has developed a unique ultrasound-mediated biofilm drug delivery platform on the therapy side and achieved exciting in vivo results toward clinical and commercial translation. On the human performance side, her team's work refining the imaging and analysis of ultrasonically detected decompression emboli for personalized decompression sickness risk mitigation is internationally recognized, with awards from the Undersea and Hyperbaric Medicine Society, the Women Divers Hall of Fame and the Divers Alert Network.

Promotions Faculty

KRISTEN OLINGER, MD
Chief and Assistant Professor, Abdominal

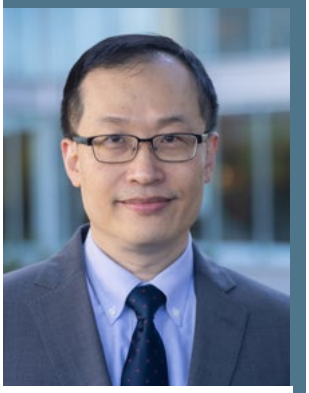


Dr. Olinger became the Division Chief for Abdominal Imaging effective January 1, 2024.

CODY SCHWARTZ, MD
Associate Professorm MSK

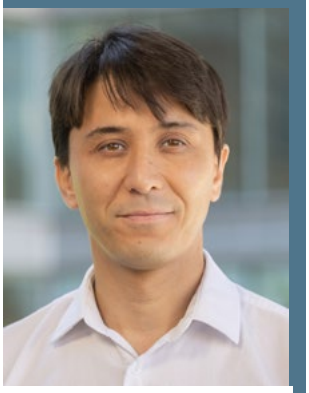
Dr. Schwartz became the inaugural Vice Chair of Education effective January 1, 2024.

HYEON YU, MD
Professor, IR



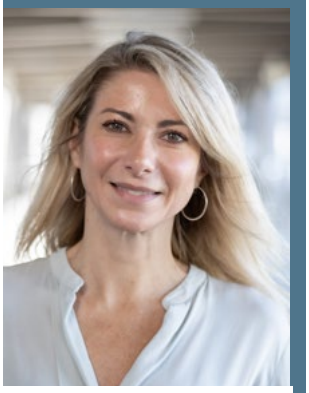
Dr. Yu became the Associate Chair of Quality & Safety effective January 1, 2024.

MARCELO TAKAHASHI MD
Assistant Professor, Peds



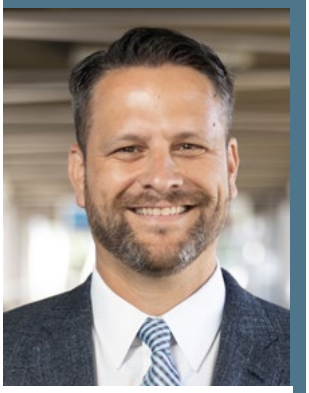
Appointed the new Director of Education for Pediatric Imaging

CAROLINA GUIMARAES, MD
Chief and Professor, Peds



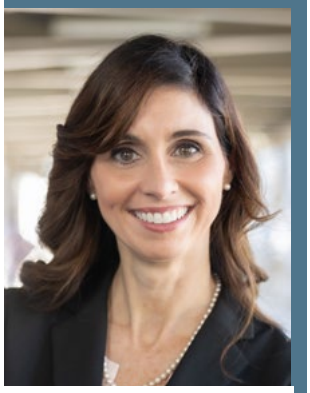
Cross-Sectional Imaging Fellowship Program Director.

JASON PIETRYGA, MD
Chief and Professor, ER



Promoted to Professor of Radiology.

KERRY THOMAS, MD
Professor, Abdominal Imaging



Promoted to Professor of Radiology.

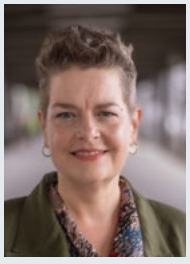
KATRINA MCGINTY, MD
Professor, Abdominal Imaging

Promoted to Professor of Radiology.

STACY O'CONNOR, MD
Associate Professor, Abdominal Imaging

Dr. O'Connor became the Vice Chair of Informatics.

Promotions Staff



AMY EDGE
Administrative Support Supervisor

DESMA JONES
Administrative Director for Clinical Research

Highlights and Honors

LAUREN BURKE, MD
Professor, Abdominal Imaging

Voted to serve as a member of the UNC Appointments, Promotions, Tenure Committee.

JOSHUA CURRENS
BME PhD student in the Papadopoulou lab

Selected for the 2024 Naval Research Enterprise Intern Program.

LANE DONNELLY, MD
Professor, Pediatric Imaging

Selected as the 2nd VP of the Society of Pediatric Radiology (SPR). Appointed Chief Quality and Safety Officer for Children's. Appointed Vice Chair of Quality and Safety for the Department of Pediatrics.

LYNN FORDHAM, MD
Professor, Pediatric Imaging

Distinguished Reviewer – Pediatric radiology Journal. Editor's Recognition Award Distinguished Reviewer- Radiographics Journal. Voted-UNC Committee of Appointments, Promotions and Tenure.

JAMES GRUDEN, MD
Professor, Cardiothoracic Imaging

Recipient of the 2023 RadioGraphics Editor's Recognition Award for reviewing with Distinction.

CAROLINA GUIMARES, MD
Chief & Professor, Pediatric Imaging

Elected to serve the American Society of Pediatric Neuroradiology (ASPNR) board of directors. Accepted to the GE/SCARD LEAD Program – Leading, Empowering and Disruption.

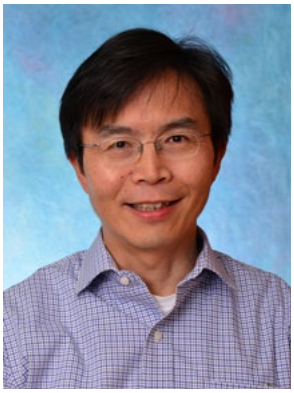
ALEX HUNG, MD
Associate Professor, Neuroradiology

ASNR 2023-2024 Twitter Case of the Year Winner Co-author: Case #172: X-Linked Charcot Marie Tooth Type 1.

CHERIE KUZMIAK, MD
Professor, Breast Imaging
Reaches 25-year tenure at UNC-Chapel Hill and NC. Recipient of the 2023 RadioGraphics Editor's Recognition Award for reviewing with Distinction. Appointed Section Chief of Breast Imaging for the American College of Radiology Institute for Radiologic Pathology.

YUEH LEE, MD, PhD
Professor, Neuroradiology

UNC Research Creativity Hubs Finalists as a primary investigator for his project, Advanced Medical Screening in Underserved Populations Using a Transportable Nanotube-Enabled Imaging System.



WEILI LIN, PhD
Professor, Radiological Sciences

Awarded the J. Keith Smith Faculty Mentoring and Development Award.

MATTHEW MAURO, MD
Professor, Interventional Radiology

Matthew A. Mauro, MD, President of UNC Faculty Physicians, and James H. Scatliff, MD, Distinguished Professor of Radiology, was awarded Honorary Membership of the European Society of Radiology (ESR).

KASSIE MCCULLAGH, MD
Assistant Professor, Neuroradiology

Accepted as a member of the Academy of Educators.

JOHN NAZARIAN, MD
Professor, Abdominal Imaging

Colleague of the Week February 2024 - UNC Department of Emergency Medicine.

GEORGE OLDAN, MD
Associate Professor

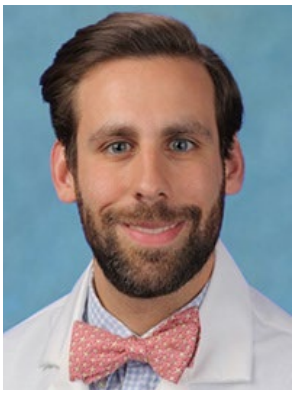
Selected as a NC TraCS Clinical Trialist Training Program scholar for 2023-2024.

KRISTEN OLINGER, MD
Chief & Assistant Professor, Abdominal Imaging

2024 RSNA Rising Star Award winner.

VIRGINIE PAPADOPOULOU, PhD
Associate Professor, Radiological Sciences

Recieved President's Award for Best Presentation at the annual Undersea and Hyperbaric Medicine Conference (UHMS).



WILL PRYOR, MD
Assistant Professor, Pediatric Imaging

Awarded American Roentgen Ray Society (ARRS) 2024 Award-Winning Scientific Session Oral Presentation – Certificate of Merit.

STEVEN ROWE, MD, PhD
Chief and Professor, MIT

Honored with the 2023 Barry Siegel Lectureship Award by The Society of Nuclear Medicine and Molecular Imaging. Bream Resident Award Winner.

SELIMA SIALA, MD
Cross-Sectional Imaging Fellow

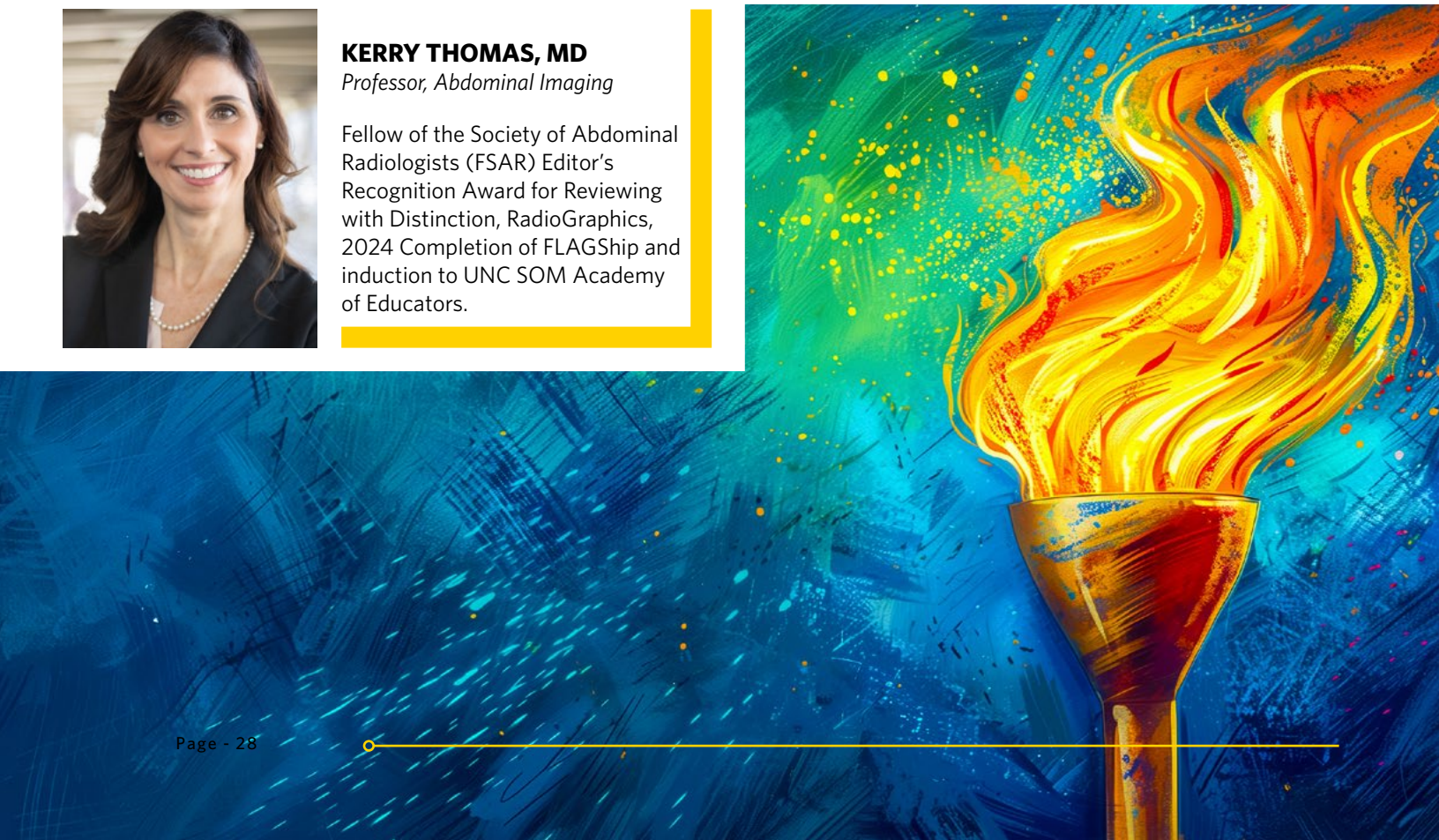
ASNR 2023-2024 Twitter Case of the Year Winner Co-Author: Case #172: X-Linked Charcot Marie Tooth Type 1.

ALLISON SPEAGLE
DR Residency Coordinator

Outstanding Performance Award

KERRY THOMAS, MD
Professor, Abdominal Imaging

Fellow of the Society of Abdominal Radiologists (FSAR) Editor's Recognition Award for Reviewing with Distinction, RadioGraphics, 2024 Completion of FLAGShip and induction to UNC SOM Academy of Educators.



Awards & Recognition

KATRINA MCGINTY, MD
Associate Professor, Abdominal Imaging

Awarded a $20,000 Educational Grant from the Radiological Society of North America (RSNA), "Virtual MRI Education in Low Resource Setting."

LI WANG, PhD
Associate Professor, Radiological Sciences

Awarded a $2.6 Million grant award from the National Institute of Mental Health for his research titled "Computational Neuroimaging MRI for Studying Early Brain Development with Autism."

ZIBO LI, PhD
Professor, Radiological Sciences

Awarded an estimated $2.5 Million grant award from the National Cancer Institute for his research titled, "Development of an Efficient 18F labeling technology based on tetrazine trans-cyclooctene ligation."

PEW-THIAN YAP, PhD
Professor, Radiological Sciences

Awarded an estimated $1.8 million award from the National Institute of Biomedical Imaging and Bioengineering (NIBIB) for his research titled, AI-Powered MRI Quality Control and Artifact Correction for Multi-Site Studies.

DIANE ARMAO
Clinical Instructor

UNC School of Medicine Office of Research Boost Award (June 19. 2024) for NIH R01NS136621, titled: "Regenerative Strategies Targeting Retinoic Acid Signaling in Giant Axonal Neuropathy", submitted by MPIs Diane Armao and Natasha Snider.

VIRGINIE PAPADOPOULOU, PhD
Associate Professor, Radiological Sciences

Awarded 3-year grant from the Office of Naval Research for STEM outreach project entitled, "2051 Sea Odyssey." The 8-part docuseries will be developed as a collaboration between scientists working in undersea research, and DEEP, an undersea engineering company developing novel technology and training to 'make humans aquatic'.

Lectureships

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

MOLINA LECTURE
March 29, 2024
—
Kim Lori Sandler, MD
Associate Professor of Radiology and Radiological Sciences, Co-Director, Vanderbilt Lung Screening Program, Vanderbilt University Medical Center

Advancements in Clinical Implementation and Machine Learning Utilization in Lung Cancer Screening.

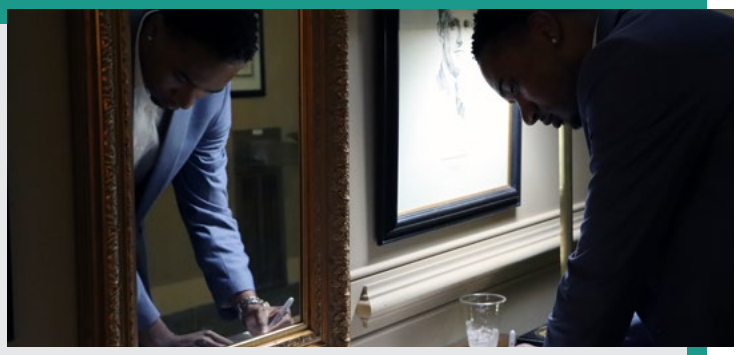
MAURO LECTURE
April 26, 2024
—
John A. Kaufman, MD, MS
Frederick S. Keller Endowed Professor of Interventional Radiology, Oregon Health & Science University, Vice President and Chief Medical Officer, Cook Medical

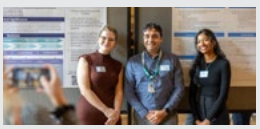
"I love medicine, but..." Observations on career pivots and pitfalls

LEE LECTURE
May 31, 2024
—
Scott Reeder, MD, PhD
John H. Juhl Professor of Radiology and Chair of the Department of Radiology, Liver Imaging Research Program Director, University of Wisconsin

Quantitative MRI Biomarkers of Diffuse Liver Disease.

2024 Castillo Scholars Program





Top to bottom, left to right, Opening Reception: Scholar Aaron Williams. Scholars Grace Burud, Sophie Korenek and Jasmine Kimber with Dr. Castillo. Castillo Scholars with Gloria Salazar and Mauricio Castillo. Scholars listening to speaker. Department Liaison Winston Li posing with Sean Beatty. Evening of Scholarship: Scholar Kyle Polanco presenting. Karene Ricketts, MD presented with the Castillo Scholars Program Alumni Award. Scholar Jasmine Kimber with Radiology Liaison Kassie Mccullagh. Surgery Liaison Luigi Pascarella, MD listening to scholar Katlyn Hurstas. OBGYN Scholars Sophia Shwartz and Tejal Vanukurupose with Liaison Eduardo Lara-Torre in front of their posters. Sean Beatty presenting his oral presentation.

The Mauricio Castillo, MD, Scholars Program is designed to increase opportunities in medical specialties for individuals who have been underserved in the past in moving toward their professional goals. The Castillo Scholars Program seeks to provide educational, research, clinical shadowing, and mentorship opportunities for current medical students.

For the program's fourth summer, stipends in the amount of $5,000 will be awarded to outstanding students who have completed their first year of medical school, and whose academic and extracurricular activities have demonstrated an interest in pursuing a residency match in a specialty.

The program kicked off on May 30th with an opening reception at the Carolina Club. Scholars were welcomed by Gloria Salazar, Vice Chair of Health Equity and Community Engagement and project founder and retired professor Mauricio Castillo, MD. The event was also an opportunity for scholars and mentors to meet and connect before embarking on their 8-week summer experiences.

The program concluded on Thursday, July 25th, with an Evening of Scholarship. UNC Medical Alumni Association sponsored the event at the Carolina Club, a celebration of the 16 Castillo Scholars. At the event the scholars successfully showcased their summer research projects with oral and poster presentations.

Diagnostic Radiology scholar Jasmine Kimber presented her poster "Advancement in Imaging Science Using a Multimodality Bone Edema Phantom Model for Validation and Technology Development" and our Interventional Radiology scholar Kaila Moore presented "Advancing Postpartum Hemorrhage and Placenta Accreta Spectrum Management: A Multidisciplinary Interventional Radiology (IR) Approach."

Best of Luck to our 2024 Castillo Scholars in their 2nd year of Medical School.

If you are interested in donating to our Castillo Scholars Fund, scan the qr code

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Mission

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


Attending baby shower

VIR team


Neuro graduation division dinner


SIR March 2024


SAR April 2024


SAR April 2024


graduating residents and fellows


Neuro graduation division dinner

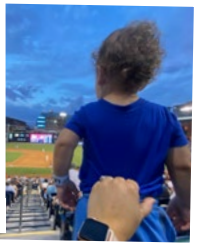

ASNR May 2024

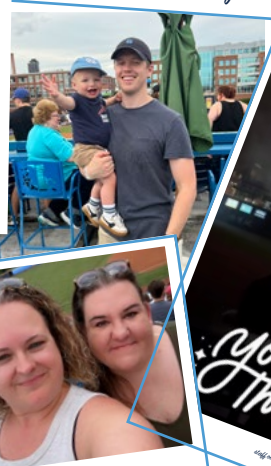

Dinner with Drs. Reeder & Lee


SIR 2024 Ax Throwing


farewell get together for graduating breast fellows


abdominal dinner


staff outing. Bulls game

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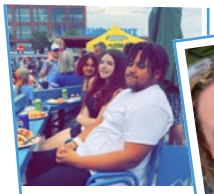
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