

Resident Scholarly Activity 2023-2024

Gulati V, Roy SG, Moawad A, Garcia A, Babu AS, Poot J, Teytelboym O. Transcending Language Barriers: Can ChatGPT Be the Key to Enhancing Multilingual Accessibility in Healthcare? *Journal of the American College of Radiology*, 2024 - Provisionally accepted.

Gulati A, Pishgar F, Mokka M, Jiao A, **Gulati V.** Bone Hydatid. *RadioGraphics*, 2024. – Submitted

Filho AG, Gomez C, **Gulati V,** El-Diasty T, Shebel H. Encrusted Pyelitis. *RadioGraphics*, 2024.

Gulati A, **Gulati V,** Hu R, Rajiah PR, Stojanovska J, Febbo J, Litt HI, Pavri B, Sundaram B. Mitral Annular Disjunction: Review of an increasingly recognized mitral valve entity. *Radiology: Cardiothoracic Imaging*, 2023

Roy SG, Gulati V, Pichardo LM, Chaker S, Brody M, Rotenberg S, Hayeri R, Poot J, Teytelboym OM. Gallstones detection on Dual Energy Computerized Tomography – Is it ready for real-world use? A retrospective observational study. *Journal of Computed Tomography*, 2023.

Gulati V, Roy S, Moawad A, Garcia D, Babu A, Poot J, Teytelboym O. Transcending Language Barriers: Can “RadBots” Be the Key to Enhancing Multilingual Accessibility in Healthcare? Emerging Research Abstract Oral Presentation, American Roentgen Ray Society (ARRS) Annual Meeting 2024.

Gulati V, Gulati A, Rajiah P, Hu R, Sundaram B. Unraveling the Beat: Insights into Mitral Annular Disjunction. ePoster Presentation, Society of Thoracic Radiology (STR) Annual Meeting 2024

Gulati A, **Gulati V,** Kamel SI, Belair JA. Unraveling Wrist Radiographs: A review of traumatic wrist injuries focusing on radiographic imaging. Educational Exhibit, Annual Conference of Radiological Society of North America (RNSA) 2023

Jaber B, Singh R, Shalaby M, Elsayes K, **Mackey J.** The Mystery of Internal Hernias: What Should the Radiologists Know? Educational exhibit, RSNA Annual Meeting November 2023.

Singh R, Ahuja RS. Percutaneous ablation of Renal Masses. 2024 May. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 May. Status: Accepted.

Pal, D., **Roy, S.G., Singh, R, Hayeri, R.** Imaging features of soft-tissue infections. *Skeletal Radiol* (2024). <https://doi.org/10.1007/s00256-024-04694-4>. Status: Invited; Published

Sreemantula H.S., Yong S.Y., **Singh R.,** Doodipala M.R., Finley J.J., Hemodynamic Outcomes of Percutaneous Pulmonary Thrombectomy in Intermediate High Risk Acute Pulmonary Embolism: A Single Center Analysis. *Society of Cardiovascular Angiography and Interventions.*

Journal of the Society for Cardiovascular Angiography & Interventions, Volume 3, Issue 5, 101849. Status: Poster Presented.

Singh S.B., Bhandari S, Bhandari S, Bhandari S, **Singh R**, Raynor WY, Hess S, Werner TJ, Alavi A., Revheim ME. (2024, January). Role of PET/CT in Diagnosing and Monitoring Disease Activity in Rheumatoid Arthritis: A Review. Annals of Nuclear Medicine [DOI: 10.1007/s12149-023-01896-z]. Status: Published

Singh SB, Shrestha N, Bhandari S Shrestha S, Shrestha B, Shrestha N, Rijal S, **Singh R**, Hess S, Werner TJ, Alavi A. The Role of 2-[18F]FDG PET/CT in Identifying the Causes of Fever of Unknown Origin: A Review. (2023, November). The Potential of 18F-FDG-PET/CT in Identifying the Causes of Fever of Unknown Origin: A Review. American Journal of Nuclear Medicine and Molecular Imaging. Pub Status: Accepted (Manuscript ID: AJNMMI0154223).

Singh S.B., Bhandari S., Siwakoti S., Kumar M., **Singh R.**, and Khanal. K. PET/CT in Evaluating CAR-T Cell Immunotherapy in Hematological Malignancies. Molecular Imaging. Hindawi. 2023. Pub Status: Submitted for review. Status: Major revision - resubmitted (Manuscript ID No. 6658473).

Shrestha, B., Singh, S., Raynor, W., Ahmed, M., Valluru, S., **Singh, R.**, Glennan, P., Shehu, V., Werner, T., Revheim, M-E., Høilund-Carlsen, P.F., & Alavi, A. (2023, June). Effects of chimeric antigen receptor T-cell therapy on pulmonary and hepatic FDG uptake in patients with non-Hodgkin lymphoma. Journal of Nuclear Medicine, 64 (supplement 1), P1076. Pub Status: Published.

Sattar Y., Rashid R., Shaik A., **Singh R.**, Sattar A., Das P., Aiya U., Deb A., Patel N., Bennett B. The Diagnostic Challenge of Acute Aortic Thrombus Concealed by Asthma Exacerbation: A Case Report. Chest, Volume 164, Issue 4, A234-A235. Pub Status: Published

Shalaby M., Chaker S., Moawad A., Jaber B., Aslam M., Singh R., Kushchayev S., & Teytelboym O. Diffusion-weighted Imaging of the Spine: A Review and Update. (2024) Neurographics. 1(13), 53-65. DOI: <https://doi.org/10.3174/ng.2200037>

Singh R., Lingnurkar R.S., **Garcia D, McGarry M.K., McKenna G.J.**, Vein or Vain: Distinguishing IVC Anomalies from Post-Thrombotic Syndrome and the Role of Pre-Procedural Imaging. Global Oncology Symposium Technologies 2024. (May 2024). Status: Poster Presentation

Worede F, Singh R, Moawad A, Jaber B, Hayeri R. Bubbling Clues: A Pictorial Review of Emphysematous Infections of the Lower Extremity. Educational Exhibit. ARRS 2024. Status: Presented

Singh R., Lingnurkar R.S., **McGarry M.K.** Endovascular Management of Vertebroplasty Cement Embolism: Case Report and Review of Literature. Venous 2024. American Venous Forum. (March 2024). Oral presentation.

Singh R., Garcia D., Rotenberg S., Brody M. Code of Con-DUCT: An Algorithmic Approach to Multimodality Assessment and Management of Dilated Mammary Ducts. Educational exhibit, RSNA 2023. Status: Educational exhibit presentation.

Shrestha B.B., Singh S.B., **Singh R.**, Bhusal S., Raynor W.Y., Werner T., Alavi A. Effects of aging on iliac bone turnover using 18F-sodium fluoride (NaF) PET/CT: co-author, Scientific presentations, RSNA 2023. Status: Educational exhibit presentation

Shrestha B.B., Singh S.B., **Singh R.**, Bhusal S., Raynor W.Y., Werner T., Alavi A. Global assessment of bone marrow FDG uptake to evaluate the efficacy of autologous stem cell transplantation in multiple myeloma patients: Presenter, Scientific presentations, RSNA 2023. Status: Educational exhibit presentation

Shrestha B.B., Singh S.B., Raynor W.Y., **Singh R.**, Bhusal S., Werner T., Alavi A. Role of 18F-FDG PET/CT to evaluate the effects of chimeric antigen receptor T-cell therapy on the spleen in patients with non-Hodgkin lymphoma: Co-author, Scientific presentations, RSNA 2023. Status: Oral presentation.

Pediatric Neuroradiology case review session with Dr. Sarah Moum, MD, MSc. Rad-discord board review sessions. Role- Moderator. April 2024.

Body case review session with Dr. Ashkan Malayeri. Rad-discord board review sessions. Role- Moderator. April 2024.

SuprIR bowl participant: Interventional Radiology jeopardy between PAIRS (Philadelphia Angiographic and Interventional Radiology Society) and NESIR (New England Society of Interventional Radiology) organized by PAIRS and co-hosted by Backtable IR. April 2024.

Fikadu Worede, MD; Daniela Garcia, MD; Anne Marie Cahill, MBBch, BAO, FSIR. Balloons with an Edge: Pediatric Candidates for Cutting Renal Artery Angioplasty (ISET 2024)

Shyam Sunder B.Venkanakrishna; Mohamed Elsinger; **Fikadu Worede;** Jelena Curic; Savvas Andronikou. Unequal cerebral magnetic resonance imaging changes in perinatal hypoxic ischemic injury of term neonates (Journal of Computer Assisted Tomography, Jul 2023)

Dana Alkhulaifat; Shyam Sunder B.Venkanakrishna; Cesar Augusto Alves; Wondessen Lerbo; Luis Octavio Tierradentro-Garcia; Mohamed Elsinger; **Fikadu Worede;** Jelena Curic; Savvas Andronikou. Distinguishing multicystic from focal encephalomalacia on delayed MRI in children with term hypoxic ischemic injury (Journal of Neuroimaging, Jan 2024)

Shyam Sunder B.Venkanakrishna; Parth Sharma; Luis Octavio Tierradentro-Garcia; Mohamed Elsinger; **Fikadu Worede;** Jelena Curic; Cesar Augusto Alves; Savvas Andronikou. Frequency of cerebellar abnormalities associated with differing MRI patterns of Term Hypoxic Ischemic Injury (HII) in children (Journal of pediatric Neurology Feb 2024)

Kwak S., Akbari H., Garcia J., Mohan S, Dicker Y., Sako C., Matsumoto Y., **Shalaby M.**, ... Davatzikos C. Predicting peritumoral glioblastoma infiltration and subsequent recurrence using deep learning-based analysis of multi-parametric magnetic resonance imaging. (2024) Journal of Medical Imaging. Pub Status: In press.

Shalaby, M., Aslam, M., Chaker S., & Honarmand A. (May, 2024) Discitis-osteomyelitis or Mimics: A Pictorial Review: 62nd Annual Meeting of American Society of Neuroradiology: Las Vegas, USA. Invited to publication from Neurographics.

Shalaby, M., Moawad A., Aslam, M., Chaker S., Kushchayev, S., Honarmand A. & Teytelboym, O. (May 2024) Discitis-Osteomyelitis or Mimics? An Attempt to Enlighten This Dark Region: 2024 Annual Meeting of American Roentgen Ray Society: Boston, USA.

Parizadeh, D., Shalaby, M., Singh, R. & Honarmand A. (May 2024) Spine T1-Weighted Hypointense Focal Lesions: A Diagnostic Dilemma: 2024 Annual Meeting of American Roentgen Ray Society: Boston, USA.

Aslam, M., Shalaby, M., & Honarmand A. (May 2024) Imaging of Multiorgan Diabetic Complications: 2024 Annual Meeting of American Roentgen Ray Society: Boston, USA.

Moawad AW, Shalaby M, Jaber B, Aslam M, Kushchayev S, Honarmand R, Teytelboym O. "Are we good enough to perform CT Perfusion (CTP)? Technical perspective and roadmap for troubleshooting". Radiological society of North America annual meeting. November 2023.

Hakkesteegt SN, Spaander DJ, Schut AW, Hanff D, Messiou C, Jones RL, Hayes AJ, Nardo L, Abdelhafez YG, **Moawad AW**, Elsayes KM. Multi-center external validation of an automated model differentiating atypical lipomatous tumor from lipoma using radiomics and deep learning based segmentation. Connective tissue oncology society annual meeting. November 2023

Moawad AW, Janas A, Baid U., Ramakrishnan D., **Teytelboym O**, Rudie J, Bakas S, Aboian MS. Challenges for open science; real life example from ASNR-MICCAI-BraTS metastasis 2023. Conference on Machine Intelligence in Medical Imaging annual meeting. October 2023.

Moawad AW, Janas A, Baid U., Ramakrishnan D., **Teytelboym O**, Rudie J, Bakas S, Aboian MS. Technical and administrative challenges for open science; real life example from BraTS 2023. Pennsylvania radiological society annual meeting. September 2023.

Moawad AW, Janas A, Baid U., Ramakrishnan D., **Teytelboym O**, Rudie J, Bakas S, Aboian MS. ASNR-MICCAI-BraTS-METS 2023 challenge; Brain metastasis Segmentation on pre-therapy MRI. Eastern society of neuroradiology annual meeting. August 2023

Moawad AW, Janas A, Baid U., Ramakrishnan D., **Teytelboym O**, Rudie J, Bakas S, Aboian MS.

Technical & administrative challenges for open science; Real life experience from BraTS-METS 2023 segmentation challenge dataset. Eastern society of neuroradiology annual meeting. August 2023

A. Janas, K. Krantchev, **A. Moawad**, B. Roohani, A. Gkampenis, JP. Fehringer, N. Yordanov, A. Okar, M. Aboian. Fostering computational proficiency in medicine: innovative strategy to integrate database building and ML into medical education through the BraTS 2023 challenge. Eastern society of neuroradiology annual meeting. August 2023

S. Chaker, R. Hayeri. Metastasis of Lung Adenocarcinoma Presenting as a Lytic Lesion to an Upper Extremity Digit. Case in Point, ACR, 2024.

S. Chaker, J. Lopez-Rippe, J. R. Reid. MR Enterography of Inflammatory Bowel Disease: How Do I Start and Where Do I Look? Society of Pediatric Radiology Annual meeting 2024. Educational Exhibit.