

# **FY2023 PUBLICATIONS**

## **DIAGNOSTIC RADIOLOGY**

Abdelhalim, A.-H., Negahdar, MJ, Switala, A., Alksas, A., Zhang, Y., El-Baz, A., & Contractor, S. Computer Aided Systems for Brain Death Detection. Research!Louisville.

Abubakar, A., Cox, R., & Guo, H. (2022). Development of B7-H3 PET Imaging Biomarker for Cancer Immunotherapy. Paper presented at the Research of Louisville 2022.

Ahmed, N., Negahdar, MJ., Joshi, J. K., & Contractor, S. G. (Submitted). Patient Perspectives on AI Implementation in Radiology, From Generation to Generation. RSNA 2023.

Ahmed, R. U., Knibbe, C. A., Morgan, M., Medina-Aguinaga, D., Gibson, D., Kim, J.-w., Sharma, M., Chopra, M., Davison, S., Sherwood, L. C., Negahdar, MJ., Bert, R., Ugiliweneza, B., Hubscher, C., Budde, M. D., Xu, J., Boakye, M. (Under submission). Predictive values of spinal cord diffusion MRI to characterize outcomes after contusion injury. Annals of Clinical and Translational Neurology.

Alksas, A., Negahdar, MJ., Zhang, Y., Abdelhalim, A.-H., Farg, H. M., Badawy, M. A., El-Ghar, M. A., Ghazal, M., El-Baz, A. S., & Contractor, S. G. (Submitted). Development of a Computer-Aided Diagnostic System for Accurate Detection of Brain Death Using Artificial Intelligence Techniques. RSNA 2023.

Amraotkar, A., Hoetke, J. D., Negahdar, MJ., Ng, C., Lorkiewicz, P., Baba, S., Bhatnagar, A., & O'Toole, T. (Submitted). Comparative Evaluation of Different Modalities for Measuring In Vivo Carnosine Levels. Journal of Amino Acids.

Anderson, R., Everett, L., Cullett, A., & Van Meter, T. (2022, September). Renal Vein Leiomyosarcoma in a 77-year old male. Poster presented at Research! Louisville 2022, Louisville, KY.

Bolhassani, M., Furtado, W., Duvall, D. A., Negahdar, MJ., Somnay, V. R., Ghazipour, A., Settle, T., Joshi, J. K., Amini, A., & Contractor, S. G. (Submitted). A Deep Learning Model for the Diagnosis of Adult Elbow Fractures on Radiographs. RSNA 2023.

Chaurasia, A., Gopal, N., Dehghani Firouzabadi, F., Yazdian Anari, P., Wakim, P., Ball, M. W., Jones, E. C., Turkbey, B., Huda, F., Linehan, W. M., Turkbey, E. B., & Malayeri, A. A. (2023). Role of ultra-high b-value DWI in the imaging of hereditary leiomyomatosis and renal cell carcinoma (HLRCC). *Abdom Radiol (NY)*, 48(1), 340-349. PMID: 36207629.

Chorney, M. A. (in press). Cold-Induced Raynaud's Phenomenon. *Journal of Vascular and Interventional Radiology*.

Cole, M., Washington, B., Crabtree, C., Canalichio, K. L., & Hadi, M. (2022). Simulation in Education Using a Virtual World (Metaverse): Supplemental Educational Platform (SEP) for Dental (D1) Students Using Gather®. Paper presented at the Research! Louisville, September 2022.

Cox, R., Abubakar, A., & Guo, H. (2022). 89Zr-ImmunoPET for B7-H3 levels in a pulmonary melanoma mouse model. Paper presented at the Research of Louisville 2022.

Currier, B., & Hadi, M. (2023). Simulation in Radiology Education using a Virtual World (Metaverse), a Gather implementation of a supplemental education platform for Skull base and Cranial Nerves. Paper presented at the (ASNR) 23 Meeting, Chicago, May 2023.

Dadlani, A., Chhabra, G., Contractor, S., Ohene Baah, N., & Barve, A. (October 2022). Novel Approach in the Management of Large Portosystemic Shunt Causing Hepatic Encephalopathy. *American College of Gastroenterology*.

Dent, M., Mayer, K. L., Verjan Garcia, N., Guo, H., Kajiura, H., Fujiyama, K., & Matoba, N. (2022). Impact of glycoengineering

and antidrug antibodies on the anticancer activity of a plant-made lectin-Fc fusion protein. *Plant Biotechnology Journal*. Advance online publication. PMID: 35900183.

Elmore, C., Kemper, N., Guan, R., Tran, M., Jones, H. J., Joshi, J. (2023). Educational Exhibit: Bladder and Urethral Gunshot Wounds – Characterization of Imaging. Paper presented at the 123rd ARRS Annual Meeting, Honolulu, Hawaii.

Everett, L., Parikh, I., Taxak, P., Albers, B., & Joshi, J. (2022). Cardiac MR imaging reveals L-type transposition of the great vessels and failing right heart. *Radiology Case Reports*, 17(10), 3946-3949.

Fahmy, D., Alksas, A., Elnakib, A., Mahmoud, A., Kandil, H., Khalil, A., Ghazal, M., van Bogaert, E., Contractor, S., & El-Baz, A. (2022). The Role of Radiomics and AI Technologies in the Segmentation, Detection, and Management of Hepatocellular Carcinoma. *Cancers*, 14(24), 6123.

Furtado, W., Cullett, A., Joshi, J., & Van Meter, T. (2022, September). Patient Simulated Cases increase confidence of residents when managing adverse events related to radiological procedures. Poster presented at Research! Louisville 2022, Louisville, KY, and ACR conference, May 6-10, 2023, Washington DC.

Geller, A. E., Shrestha, R., Guo, H., Ding, C., Woeste, M. R., Andreeva, K., Chariker, J. H., Hu, X., Zhou, M., Tieri, D., Watson, C. T., Mitchell, R., Zhang, H., Li, Y., Martin, R. C. G., Rouchka, E. C., Yan, J. (2022). The induction of peripheral trained immunity in the pancreas incites anti-tumor activity to control pancreatic cancer progression. *Nature Communications*, 13(1), 759. PMID: 35140221

Ghosh, S., Singh, R., Vanwinkle, Z. M., Guo, H., Vemula, P. K., Goel, A., Haribabu, B., & Jala, V. R. (2022). Microbial metabolite restricts 5-fluorouracil-resistant colonic tumor progression by sensitizing drug transporters via regulation of FOXO3-FOXM1 axis. *Theranostics*, 12(12), 5574-5595. PMID: 35910798.

Ghosh, S., Singh, R., Vanwinkle, Z. M., Guo, H., Vemula, P. K., Goel, A., Haribabu, B., & Jala, V. R. (2022). Microbial metabolite, Urolithin A inhibits resistant colonic tumor progression by sensitizing drug transporters via regulation of FOXO3-FOXM1 axis. Paper presented at the Research of Louisville 2022.

Golagha, M., Firouzabadi, F., Huda, F., Milo, C., Zahergivar, A., Jones, E., Dave, R. H., Veras, J. I., O'Brien, K., & Malayeri, A. (2023). The role of FDG PET/CT imaging in detecting unusual manifestations of Erdheim-Chester Disease (Orbital and Muscle involvement). Paper submitted to RSNA 2023.

Guan, R. L., Kemper, N. W., Mamaliga, T. (presenter), Jones, H. M., Dahle, M. (2023). Educational Exhibit: Sonographic Findings in Post Renal Transplant Complications. Paper presented at the Society of Abdominal Radiology (SAR) 2023 Annual Meeting, Austin, TX.

Guan, R., Joans, H., & Ohene Baah, N. (January 2023). Role of Adrenal Vein sampling in the workup of primary hyperaldosteronism. *International Symposium on Endovascular Therapy*.

Guo, H. (2022). <sup>89</sup>Zr-labeled anti-B7-H3 antibody for evaluating in vivo B7-H3 levels in a pulmonary melanoma mouse model. Paper presented at the Nuclear Medicine and Molecular Imaging 2022 Annual Meeting.

Hao, J., Jin, R., Zeng, J., Hua, Y., Yorek, M. S., Liu, L., Mandal, A., Li, J., Zheng, H., Sun, Y., Yi, Y., Yin, D., Zheng, Q., Li, X., Ng, C., Rouchka, E., Egilmez, N., Jabbari, A., & Li, B. (2022). Consumption of fish oil high-fat diet induces murine hair loss via epidermal fatty acid binding protein in skin macrophages. *Cell Reports*, 41(11), 111804. PMID: 36516778.

Hsu, L.-Y., Ali, Z., Bagheri, H., Huda, F., Redd, B. A., & Jones, E. C. (2023). Comparison of CT and Dixon MR Abdominal Adipose Tissue Quantification Using a Unified Computer-Assisted Software Framework. *Tomography*, 9(3), 1041-1051.

Huda, F., Abdelmonem, A., Dehghani Firouzabadi, F., Srinivas Dola, V. N., Sheikhy, A., & Taheri, M. R. (2023). The role of arachnoid granulations in idiopathic intracranial hypertension. *Neuroradiol J*. Advance online publication. PMID:

37102274.

Johnson, P., Anderson, R., Gamble, C., van Bogaert, E., & Joshi, J. (2023). Traumatic aortic injury from pellet gun: A case report. *Radiology Case Reports*, 18(3), 1368-1371.

Jones, H. J., Eapen, P., Holayter, R. (MD), Contractor, S. (2022). Techniques for Endoleak Repair: Case Series. Poster Presentation Abstract ID: 1133456. Paper presented at the 34th Annual International Symposium on Endovascular Therapy (ISET), Hollywood, FL, January 16-19, 2022.

Jones, H. J., Eichinger, J., Kemper, N., Ohene-Baah, N. (2023). Catheter Directed Thrombolysis in Setting of Pulmonary Embolism and Paradoxical Embolism. Poster Presentation Abstract ID: 1370269. Paper presented at the 35th annual International Symposium on Endovascular Therapy (ISET), Miami, FL.

Jones, H. J., Guan, R., Ohene Baah, N. (2023). Role of Adrenal Vein Sampling in Workup of Primary Hyperaldosteronism (Conn Syndrome). Poster Presentation Abstract ID: 1370285. Paper presented at the 35th annual International Symposium on Endovascular Therapy (ISET), Miami, FL.

Jones, H. J., Kemper, N., Bockhorst, S., Rizenbergs, K., Glaenzer, B. (MD) (2023). Transjugular Intrahepatic Portosystemic Shunting in the Management of Hepatic Hydrothorax. Poster Presentation Abstract ID: 1370292. Paper presented at the 35th annual International Symposium on Endovascular Therapy (ISET), Miami, FL.

Jones, H. J., Kemper, N., Furtado, W., Guan, R., Ankem, A. , Van Meter, T. (2023). Impact of COVID-19 on Radiology Residency Selection Process: 2021 Survey of Radiology Residency Programs and 2023 Survey. Poster Presentation Abstract ID: 607. Paper presented at the Association of University Radiologists 71st Annual Meeting (AUR), Austin, TX.

Jones, H. J., Kemper, N., Guan, R., Mamaliga, T. , Joshi, J. (2023). Poster Presentation: Blueprint for Early Medical Student Exposure to Research, Trauma, and Radiology: Trauma Registry Gunshot Wound Projects. Paper presented at the Association of University Radiologists 71st Annual Meeting (AUR), Austin, TX.

Jones, H. M., Ankem, A., Kemper, N., Furtado, W., Guan, R., & Van Meter, T. (2023, April 25). Impact of COVID-19 on Radiology Residency Selection Process: 2021 Survey of Radiology Residency Programs and 2023 Survey. Poster presented at Association of University Radiologists annual conference, Austin, TX.

Jones, H. M., Ankem, A., Seroogy, E. A., Kalantar, A., Goldsmith, D. C., Rizenbergs, K. C., Van Meter, T. L. (2022). Impact of COVID-19 on Radiology Residency Selection Process: A Survey of Radiology Residency Programs in the US. *Academic Radiology*, January 7, 2022. PMID: 35125277

Kazemi, A., Negahdar, MJ., Stoddard, M., & Amini, A. Reduced-order modeling of 4D flow MRI and CFD in Stenotic Flow using Proper Orthogonal Decomposition (POD) and Dynamic Mode Decomposition (DMD). UofL AI Symposium.

Kemper, N., Bockhorst, S., Rizenbergs, K., Jones, H., Ohene Baah, N., & Glaenzer, B. (September 2022). Hepatic Hydrothorax Management with Transjugular Intrahepatic Portosystemic Shunt. *Academic Interventional Radiology*.

Kemper, N., Jones, H. J., Glaenzer, B. (2023). Educational Exhibit: Scintigraphic Shunt Studies in the Diagnosis of Hepatic Hydrothorax. Paper presented at the 123rd ARRS Annual Meeting, Honolulu, Hawaii.

Kemper, N., Mamaliga, T., Jones, H. J., Obando, J. A. (2023). Endobronchial Valves – Radiology in Placement Workup and Complications. Society of Thoracic Radiology (STR) 2023 Annual Meeting, Charleston, SC.

Kline, J., Marques, K., Pohlgeers, K., & Ohene Baah, N. (September 2022). Enhancing Education for Learners in Health Sciences with the Use of social media. Research Louisville.

Leshen, M., Dadlani, A., & Ohene Baah, N. (January 2022). Severe Gastrointestinal Bleeding Due to Hemosuccus

Pancreaticus Treated with Percutaneous Trans-splenic Embolization. American College of Gastroenterology Case Reports Journal.

Liu, Y. (2022). Unusual Illustration of Richter Transformation in Chronic Lymphocytic Leukemia on FDG PET/CT. Clin Nucl Med, 47(8), 746-747. PMID: 35307722.

Liu, Y. (2023). Editorial: Imaging in non-small cell lung cancer. Front Oncol, 13, 1143204. PMID: 36824140.

Macher, J., Brahmhatt, A., Shetty, A., Chughtai, K., Ohene Baah, N., & Dogra, V. (June 2022). Pelvic Pain Diagnosis do not Affect Outcomes in Pelvic Congestion Syndrome. Society of Interventional Radiology.

Mamaliga, T., & Liu, Y. (2022). Hypermetabolic Esophagitis Dessicans Superficialis Mimicking Esophageal Cancer on FDG PET/CT. Clin Nucl Med, 47(12), 1069-1070. PMID: 35619196.

Mamaliga, T., Mamaliga, T., Liu, Y. (2022). Incidental Uptake of 18F-Fluciclovine by Type AB Thymoma. Clinical Nuclear Medicine, February 2022. PMID: 35006112

Mamaliga, T., Obando, J. A., & Liu, Y. (2023). Testicular Metastasis From Prostate Cancer Demonstrated on PSMA PET/CT. Clin Nucl Med. Advance online publication. PMID: 37167255.

Munawar, U., Furtado, W., Jones, H. M., Hill, J. C., Kemper, N., Ohene-Baah, N. (2023). Management of Atypical Hemangioma with Kyphoplasty. Paper presented at LINC 2023, Leipzig, Germany.

Munawar, U., Furtado, W., Jones, H. M., Holayter, R., Contractor, S. (2023). Type II Endoleaks and Their Unique Approaches. Paper presented at LINC 2023, Leipzig, Germany.

Munawar, U., Furtado, W., Jones, H. M., Kemper, N. W., Bockhorst, S., Rizenbergs, K., Baah, N. O., Glaenger, B. (2023).

Transjugular Intrahepatic Portosystemic Shunting in the Management of Hepatic Hydrothorax. Paper presented at LINC 2023, Leipzig, Germany.

Munawar, U., Jones, H. M., Furtado, W., Eichinger, J., Kemper, N., Ohene-Baah, N. (2023). Large Pulmonary Emboli and Paradoxical Embolism Treated with Catheter Directed Thrombolysis.

Munawar, U., Jones, H., Eichinger, J., & Kemper, N. (January 2023). Catheter Directed Thrombolysis in Setting of Pulmonary Embolism and Paradoxical Embolus. International Symposium on Endovascular Therapy.

Munawar, U., Ramakrishnan, V. G., Jones, H. M., Furtado, W., Ohene-Baah, N. (2023). Successful Retrieval of an Intravascular Foreign Body Using ONE Snare® System. Paper presented at LINC 2023, Leipzig, Germany.

Munawar, U., Shumaker, M., Furtado, W., Jones, H. M., Hill, J., Kemper, N., Holayter, R., Chorney, M. (2023). Antineutrophil Cytoplasmic Antibody Associated Renal Microaneurysms Managed with Renal Embolization. Paper presented at LINC 2023, Leipzig, Germany.

Munawar, U., Somnay, V., Furtado, W., Jones, H. M., Kemper, N., Johnson, P., Jonnala, R., Hill, J., Baah, N. O. (2023). Comparative Outcomes in Percutaneous Radiological Gastrostomy Placement Techniques. Paper presented at LINC 2023, Leipzig, Germany.

Munawar, U., Somnay, V., Furtado, W., Jones, H. M., Kemper, N., Tyler, C., Glaenger, B. (2023). IRANI Procedure and its Role in Salvaging Arteriovenous Fistulas. Paper presented at LINC 2023, Leipzig, Germany.

Munawar, U., Somnay, V., Furtado, W., Jones, H. M., Schoen, E., Ohene-Baah, N. (2023). Gastroduodenal Artery Stump Pseudoaneurysm Rupture Following Selective Coil Embolization Repaired Using Covered Stent Placement. Paper

presented at LINC 2023, Leipzig, Germany.

Munawar, U., Somnay, V., Furtado, W., Kemper, N., Holayter, R. (2023). Embolization of the Thoracic Duct Utilizing Only Liquid Embolic Agent. Paper presented at LINC 2023, Leipzig, Germany.

Obando J. A. (2023). Diffuse Idiopathic Skeletal Hyperostosis and Cardiac Arrhythmias. Society of Thoracic Radiology Annual Meeting, Charleston, South Carolina.

Ramakrishnan, V., Furtado, W., Ohene Baah, N. (2023). Successful Use of ONE Snare® Endovascular Snare System in Retrieval of an Intravascular Foreign Body. Poster Presentation Abstract ID: 1368915. Paper presented at the 35th annual International Symposium on Endovascular Therapy (ISET), Miami, FL.

Ramakrishnan, V., Kemper, N., Tyler, C., Holayter, R. (2023). Post-Motor Vehicle Collision Hemorrhage of External Carotid Artery Requiring Coil Embolization. Poster Presentation Abstract ID: 1368909. Paper presented at the 35th annual International Symposium on Endovascular Therapy (ISET), Miami, FL.

Richardson, A. L., Richardson, O. K., Touloumes, N. J., Ohene Baah, N. Y. (2023). COVID-19-related arterio-ureteral fistula formation in a post-transplant patient. *Radiology Case Reports*, 18(3), 1015-1020.

Richardson, A., Richardson, O., Guan, R., Anderson, R., & Van Meter, T. (2023). The lifesaving effects of cardiac adhesions. *Radiology Case Reports*, 18(7), 2461-2464.

Shalata, A. T., Shehata, M., Van Bogaert, E., Ali, K. M., Alksas, A., Mahmoud, A., El-Gendy, E. M., Mohamed, M. A., Giridharan, G. A., Contractor, S., & El-Baz, A. (2022). Predicting Recurrence of Non-Muscle-Invasive Bladder Cancer: Current Techniques and Future Trends. *Cancers*, 14(20), 5019.

Sharma, P., Panta, T., Ugiliweneza, B., Bert, R. J., Gerasimenko, Y. P., Forrest, G. F., & Harkema, S. (Pending). Multi-site spinal cord transcutaneous stimulation facilitates upper limb sensory and motor recovery in severe cervical spinal cord injury: A case study. *Journal of Clinical Medicine*, Manuscript ID: jcm-2438100.

Smith, A. C., Angeli, C. A., Ugiliweneza, B., Weber II, K. A., Bert, R. J., Negahdar, M.J., Mesbah, S., Boakye, M., Harkema, S. J., & Rejc, E. (2022). Spinal cord imaging markers and recovery of standing with epidural stimulation in individuals with clinically motor complete spinal cord injury. *Experimental Brain Research*, 240, 279-288.

Somnay, V., Kemper, N., Tyler, C., Glaenger, B. (2023). Arteriovenous Fistula Salvage with the Minimally Invasive IRANI Procedure. Poster Presentation Abstract ID: 1370454. Paper presented at the 35th annual International Symposium on Endovascular Therapy (ISET), Miami, FL.

Somnay, V., Baah S., Baah N. (2023). An Uncommon Case of Shock in a Patient With COVID-19 Pneumonia. Paper presented at the American Thoracic Society International Conference, Washington, DC.

Somnay, V., Furtado, W., Kemper, N., Holayter, R. (MD). (2023). Treatment of Chylous Effusions with Thoracic Duct Embolization Using Only Liquid Embolic Agents. Poster Presentation Abstract ID: 1370533. Paper presented at the 35th annual International Symposium on Endovascular Therapy (ISET), Miami, FL.

Somnay, V., Schoen, E., & Ohene Baah, N. (January 2023). Covered Stent Placement for Gastroduodenal Artery Stump Pseudoaneurysm Rupture Following Selective Coil Embolization. *International Symposium on Endovascular Therapy*.

Somnay, V., Schoen, E., Ohene Baah, N. (2023). Covered Stent Placement for Gastroduodenal Artery Stump Pseudoaneurysm Rupture Following Selective Coil Embolization. Poster Presentation Abstract ID: 1338906. Paper presented at the 35th annual International Symposium on Endovascular Therapy (ISET), Miami, FL.

Sulehria, T. (2022). Mild Traumatic brain injury (mTBI) Emerging Pathophysiological Insights from Recent Human and

Animal Molecular Imaging Studies. Paper presented at the American Society of Neuroradiology (ASNR) 2022 Annual Meeting, New York City, May 14-18, 2022.

Sun, R., Lei, C., Chen, L., He, L., Guo, H., Zhang, X., Feng, W., Yan, J., McClain, C. J., & Deng, Z. (2022). Alcohol-driven metabolic reprogramming promotes development of ROR $\gamma$ t-deficient thymic lymphoma. *Oncogene*, 41(16), 2287-2302. PMID: 35246617.

Suryadevara, R., Thiyagarajah, N., Negahdar, MJ., & Contractor, S. G. (Submitted). Evaluating Primary and Secondary Endpoints in Intracranial Hemorrhage AI Algorithms - A review of current market algorithms and a proposed retraining model for improving patient triaging. RSNA 2023.

Thiyagarajah, N., Suryadeva, T., Contractor, S., & Ohene Baah, N. (May 2023). Management of Intractable Encephalopathy with TIPS and Embolization of an Acquired Inferior Mesenteric-Caval Shunt. Global Embolization Symposium and Technologies Meeting.

Warawa, J. M., Duan, X., Anderson, C. D., Sotsky, J. B., Cramer, D. E., Pfeffer, T. L., Lawrenz, M. B. (2022). Validated Preclinical Mouse Model for Therapeutic Testing against Multidrug-Resistant *Pseudomonas aeruginosa* Strains. *Microbiology Spectrum*. Advance online publication. PMID: 36094219.

Xie, B., Zheng, H., Shum-Siu, A. H., Magnuson, D. S., & Ng, C. K. (2022). Complementary Roles of FDG PET and 1H-MRS for Assessing Hindlimb Recovery in a Rat Model of Contusion Spinal Cord Injury. Paper presented at the Research!Louisville, September 2022.

Zahergivar, A., Firouzabadi, F., Golagha, M., Huda, F., Biassou, N., Dave, R. H., Veras, J. I., O'Brien, K., & Malayeri, A. (2023). CNS involvement in Erdheim-Chester Disease: A closer look. Paper submitted to RSNA 2023.