

## RESEARCH SUMMARY ACADEMIC YEAR 2021-2022

**July 2021 to June 2022**

**\*Radiology Resident or Fellow**

**^Research Fellow**

**+Faculty**

### **PUBLICATIONS**

\*Ansari, O; \*Anand, R; Serdynski, KC; \*Aktan, S; ^Ploussard, B; +Allam, E. Sclerotic lumbar chordoma: A case report. *Radiology case reports* 2022 Jun 29;17(9):3200-3204. doi: 10.1016/j.radcr.2022.05.055. eCollection 2022 Sep. PMID: 35795323.

Stumpf L, Zinzuwadia S, ^Ploussard B, Zinzuwadia S, Brahmbhatt E, Adam K, +Jawahar A. A case report on peritoneal inclusion cyst with entrapped ovary and an endometriotic cyst causing diagnostic dilemma. *Int J Reprod Contracept Obstet Gynecol* 2022;11:1289-92. <https://dx.doi.org/10.18203/2320-1770.ijrcog20220921>. NO PMID.

^Ploussard B, Kieffer A, Ramasamy SK, Barkan G, +Jawahar A. Unusual presentation of ruptured adrenal hemangioma as an incidental large adrenal hematoma- A case report. *Clinical Imaging* 2022; 84:61-64. PMID: 35149234.

\*Gjeluci A, +Allam E. Ulnocarpal Impaction Syndrome. *RSNA Case Collection* published online April 4, 2022. doi:10.1148/cases.20226467. NO PMID.

\*Kus J, +Jawahar A, +Gabriel MS. Cancer immunotherapy-induced thyroiditis: An atypical presentation of thyroid uptake scan. *Journal of clinical and medical images case reports*. Published March 16, 2022. <https://jcmimagescasereports.org/article/JCM-V2-1101.pdf>. NO PMID.

\*DiGrazia GN, Zinzuwadia S, Aragao Ap, Camren GP, +Hibbeln JF, Gerena M. +Jawahar A. Rare primary pulmonary angiosarcoma with aberrant neuroendocrine differentiation. *Clin Imaging* 2022. Feb; 82:88-93. doi:10.1016/j.clinimag.2021.11.002. PMID: 34798564.

\*Aktan SL, Finucane S, Kircher M, Moore D, and +Bashir M. (February 15, 2022) The natural history of small vestibular schwannomas. *Cureus* 14(2): e22231. doi:10.7759/cureus.22231 PMID: 35340467; PMCID PMC8929235.

\*Gjeluci A, Raskind A, Dwan B, \*Yasin L, +Allam E. Trans-scaphoid lunate dislocation: A case series. *Radiology Case Reports* 2021 Dec 15;17(3):514-520. doi: 10.1016/j.radcr.2021.11.033. PMID: 34976256; PMCID: PMC8688966.

Zhang C, \*Elmaoued A, \*Rincy B, ^Ploussard B, Saab-Chalhoub M, +Alexander AJ, +Allam E. Sweet syndrome with osseous and splenic involvement: A case report. [Radiol Case Rep](https://doi.org/10.1016/j.radcr.2021.10.026). 2022 Jan; 17(1): 194–200. Online 2021 Nov 12. doi: [10.1016/j.radcr.2021.10.026](https://doi.org/10.1016/j.radcr.2021.10.026). PMID 34815826; PMCID: PMC8593262.

+Molvar C, \*Brown M. A commentary on: Yttrium-90 radioembolization for the treatment of solitary unresectable HCC: The LEGACY Study. *Practice Update website*. Accessed November 12, 2021. <https://www.practiceupdate.com/content/yttrium-90-radioembolization-for-solitary-unresectable-hcc-treatment/125557/37/9/1>. NO PMID.

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\*Ness J, +Molvar C. Radioembolization of intrahepatic cholangiocarcinoma: patient selection, outcomes, and competing therapies. *Semin Intervent Radiol*. 2021 Oct; 38(4): 438-444. doi:10.1055/s-0041-1735526. PMID: 34629711. PMCID: PMC8497081.

Prabhu V, Pappu S, Borys E, Ormston L, +Lomasney LM. Commentary: Machine-learning approach to differentiation of benign and malignant peripheral nerve sheath tumors: A multicenter study. *Neurosurgery*, Volume 89, Issue 3, September 2021, Pages E156–E157, <https://doi.org/10.1093/neuros/nyab224>. PMID: 34131751.

\*Sechrist E, \*Elmaoued A, \*Ong C, , Trivedi S, Gerena M, +Wagner R, +Allam E. Uretersciatic hernia with concomitant amyand hernia: case report and review of the literature. *Radiology Case Reports*. 2021 Aug 17; 16(10):313403138. DOI: 10.1016/j.radcr.2021.07.050 PMID: 34457102.

Knott K, Erdem Toslak I, Sidiqqe F, Joyce C, Shah R, +Lomasney LM. Radiographic evaluation of reactive osteitis in traumatic injury of sacroiliac Joints. *Clin Imaging*. 2021 Aug; 76:175-179. PMID: 33957383.

Shanker RM, Kim M, Verducci C, Rezaii EG, Steed K, +Mallik AK, Anderson DE. (2021). Trigeminal neuralgia induced by brainstem infarction treated with pontine descending tractotomy: illustrative case, *Journal of Neurosurgery: Case Lessons*, 1(26), CASE21109. Retrieved Aug 16, 2021, from <https://thejns.org/caselessons/view/journals/j-neurosurg-case-lessons/1/26/article-CASE21109.xml>. PMID: 35854900; PMCID: PMC9245751.

Shanker RM, Kim M, Verducci C, Rezaii EG, Steed K, +Mallik A, Anderson DE. Surgical Management of Trigeminal Neuralgia Induced by Brainstem Infarct: A Systematic Review of the Literature. *World Neurosurg*. 2021 Jul;151:209-217. doi: 10.1016/j.wneu.2021.04.099. Epub 2021 Apr 30. PMID: 33940266.

### **BOOK CHAPTERS**

+James JR, Martin M, Liang Y, Chapter 12, "Radiation Exposure and Protection," *Image-Guided Interventions of the Spine: Principles and Clinical Applications* edited by Khan, M, Kushchayev SV, Faro SH. Springer International Publishing, 2021; XIV, 395 pages. ISBN: 978-3-030-80078-9. DOI: <https://doi.org/10.1007/978-3-030-80079-6>.

+Halama J, +Gabriel MS. "Physics of Nuclear Medicine," *RadTool Nuclear Medicine MCQs: Board Exam Preparation*, edited by +Gabriel MS, +Savir B. Springer International Publishing, September 3, 2021; pages3-44. ISBN: 978-030-69280-3. DOI: <https://doi.org/10.1007/978-3-030-69281-0>.

+Karesh S, +Gabriel MS. "Radiopharmacy," *RadTool Nuclear Medicine MCQs: Board Exam Preparation*, edited by +Gabriel MS, +Savir B. Springer International Publishing, September 3, 2021; pages 45-78. ISBN: 978-030-69280-3. DOI: <https://doi.org/10.1007/978-3-030-69281-0>.

+Gabriel MS, Savir B, +Wagner RH, Barron, BJ, +Bova D, Hassan A. "Cardiovascular System," *RadTool Nuclear Medicine MCQs: Board Exam Preparation*, edited by +Gabriel MS,

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+Savir B. Springer International Publishing, September 3, 2021; pages 113-162. ISBN: 978-030-69280-3. DOI: <https://doi.org/10.1007/978-3-030-69281-0>.

+Gabriel MS, Savir B, +Wagner RH, Barron, BJ, +Bova D, Hassan A. "Endocrine System," RadTool Nuclear Medicine MCQs: Board Exam Preparation, edited by +Gabriel MS, +Savir B. Springer International Publishing, September 3, 2021; pages 163-187. ISBN: 978-030-69280-3. DOI: <https://doi.org/10.1007/978-3-030-69281-0>.

+Gabriel MS, Savir B, +Wagner RH, Barron, BJ, +Bova D, Hassan A. "Skeletal System," RadTool Nuclear Medicine MCQs: Board Exam Preparation, edited by +Gabriel MS, +Savir B. Springer International Publishing, September 3, 2021; pages 189-249. ISBN: 978-030-69280-3. DOI: <https://doi.org/10.1007/978-3-030-69281-0>.

+Gabriel MS, Savir B, +Wagner RH, Barron, BJ, +Bova D, Hassan A. "Pulmonary System," RadTool Nuclear Medicine MCQs: Board Exam Preparation, edited by +Gabriel MS, +Savir B. Springer International Publishing, September 3, 2021; pages 251-266. ISBN: 978-030-69280-3. DOI: <https://doi.org/10.1007/978-3-030-69281-0>.

+Gabriel MS, Savir B, +Wagner RH, Barron, BJ, +Bova D, Hassan A. "Gastrointestinal System," RadTool Nuclear Medicine MCQs: Board Exam Preparation, edited by +Gabriel MS, +Savir B. Springer International Publishing, September 3, 2021; pages 319-325. ISBN: 978-030-69280-3. DOI: <https://doi.org/10.1007/978-3-030-69281-0>.

+Gabriel MS, Savir B, +Wagner RH, Barron, BJ, +Bova D, Hassan A. "Radionuclide Therapy," RadTool Nuclear Medicine MCQs: Board Exam Preparation, edited by +Gabriel MS, +Savir B. Springer International Publishing, September 3, 2021; pages 327-335. ISBN: 978-030-69280-3. DOI: <https://doi.org/10.1007/978-3-030-69281-0>.

+Gabriel MS, Savir B, +Wagner RH, Barron, BJ, +Bova D, Hassan A. "Miscellaneous" RadTool Nuclear Medicine MCQs: Board Exam Preparation, edited by +Gabriel MS, +Savir B. Springer International Publishing, September 3, 2021; pages 337-369. ISBN: 978-030-69280-3. DOI: <https://doi.org/10.1007/978-3-030-69281-0>.

### **TEXTBOOK:**

+Gabriel MS, Savir B (Editors). RadTool Nuclear Medicine MCQs: Board Exam Preparation. Springer International Publishing, September 3, 2021; 369 pages. ISBN: 978-030-69280-3. DOI: <https://doi.org/10.1007/978-3-030-69281-0>.

### **ABSTRACTS, POSTER, EXHIBITS AND ELECTRONIC PRESENTATIONS**

\*Kus J, \*Brown M, \*Sullivan I, Abourahma M, +Borge M, +Malamis A, +Annes J, +Molvar C. Risk factors for transarterial chemoembolization and radioembolization-Induced Liver Injury and Failure. Poster presentation at the SIR 2022, Poster Presentation, June 2022.

Patel H, Huai K, \*Thorson D, Elliott N, Rac G, Picken M, Quek M, +Bova D, Gupta G. Peak early enhancement ratio reliably differentiates benign oncocytic renal tumors from

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chromophobe renal cell carcinoma. Presented at the American Urological Association Annual Meeting, New Orleans, LA. May 2022.

Behzadi F, Nuru M, \*Kus J, ^Ramasamy S, ^Ploussard B, Cunningham J, Bajwa S, Kim M, Germanwala A, +Mallik A. 3D deep learning model for predicting Pituitary Macroadenoma Cavernous Sinus Invasion. Poster presentation at the ASNR Annual Meeting, New York, NY, May 14-16, 2022.

\*Aktan S, \*Carpenter G, ^Ploussard B, ^Ramasamy S, Nuru M, Anderson D, +Mallik A. CPA/IAC Lesion Neuroimaging Review: The many faces of vestibular schwannomas and beyond. Educational exhibit presented at the American Society of Neuroradiology Annual Meeting May 14-18, 2022.

\*Carpenter G, \*Aggarwal D, \*Aktan S, \*Kus J, ^Ploussard B, ^Ramasamy S, +Mallik A. Back in the saddle again! Pituitary adenomas and beyond: neuroimaging review. Educational exhibit presented at the American Society of Neuroradiology Annual Meeting and Symposium Neuroradiologicum XXII in New York City, NY; May 14-18, 2022.

^Ramasamy S, Ahmed S, Aktan S, Mallik A, Rosenblum J. An infected pseudoaneurysm of the vertebral artery following cervical osteomyelitis. Excerpt presented at the American Society of Neuroradiology Annual Meeting and Symposium Neuroradiologicum XXII in New York City, NY; May 14-18, 2022.

\*Brown M, +Goldberg A, +Jawahar A. Imaging evaluation of penile implants. Poster presentation at ARRS 2022 annual meeting, New Orleans LA, May 1-5, 2022. Awarded Certificate of Merit.

\*DiGrazia G, \*Kus J, +Bashir M. Imaging findings in treatment resistant disseminated coccidioidomycosis. Educational Electronic Exhibit presented at ARRS, New Orleans LA, May 1-5, 2022.

^Ramasamy SK, +Mahmoud F, +Goldberg A, +Jawahar A. Review of abbreviated MRI protocols for abdomen and pelvi. Presented at annual meeting of the Society of Abdominal Radiology, Scottsdale, AZ, March 22-25, 2022.

Masoom SN, +Jawahar A, Jones L, Sundaram K. Imaging female urethral and peri-urethral pathologies, what radiologists should know about urethral MRI. Presented at annual meeting of the Society of Abdominal Radiology, Scottsdale, AZ, March 22-25, 2022.

+Allam E, +Lim-Dunham J, +Lomasney LM. Preparing tomorrow's radiology educators: a longitudinal teaching curriculum for imaging residents. Poster Presentation at the Annual Meeting of Association of University Radiologists, Phoenix, AZ, March 22-25, 2022.

Fagan R, Serrano D, Singla N, Staskiewicz C, +Lomasney LM. Heel pad softening utility in ultrasound imaging of the plantar fascia. Poster presentation at the Annual Integrative Ultrasound Meeting, San Diego, CA, March 12-16, 2022.

\*Thorson D, \*Burr T, +Goldberg A, \*Jawahar A. Peeking into the pelvis: CT evaluation of acute female pelvic pathologies. Virtual Poster presentation at the Chicago Radiological Society Meeting, January 20, 2022.

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\*Kus J, ^Ploussard B, ^Kumaran S, +Shea S, +Goldberg A, +James J, +Jawahar A. Use of double-echo steady-state (DESS) sequence in the evaluation of pudendal nerve – a pilot trial. Virtual Poster presentation at the Chicago Radiological Society Meeting, January 20, 2022. Awarded the Steven Pinsky award for the Body/MSK category.

\*Burr T, +Thorson D, \*Choudhari R, \*Lovrec P, +Goldberg A, \*Jawahar A. Basement radiology: MR defecography evaluation of pelvic floor dysfunction. Virtual Poster presentation at the Chicago Radiological Society Meeting, January 20, 2022.

\*Anand R, \*Lovrec P, +Goldberg A, +Jawahar A. Keeping up with the pandemic: review of imaging presentations of adult SARS-coV-2 infection and associated complications in the chest. Virtual poster presentation at the Chicago Radiological Society Meeting, January 20, 2022.

\*Lovrec P, \*Anand R, \*Choudhari R, \*Burr T, +Hibbeln J, \*Jawahar A. What radiologists need to know about imaging findings in myeloid sarcoma. Virtual poster presentation at the Chicago Radiological Society Meeting, January 20, 2022.

+Klein E. Prevalence of intrarenal reflux in pediatric patients on contrast enhanced voiding urosonography. Presented at the 2021 RSNA meeting, Chicago, IL, November 28-December 2, 2021.

\*Choudhari R, \*Sechrist E, Zinzuwadia S, +Goldberg A, +Jawahar A. Imaging presentations of support devices in abdomen and pelvis. St. Albert's Day annual competition for researchers Chicago, Illinois, November 2021.

^Ramasamy S, +Shea S, +James J, Kelly R, Mushabbar S, +Goldberg A, +Jawahar A. Legacy devices, abandoned leads, and MRI: what a radiologist must know. St. Albert's Day annual competition for researchers, Chicago, Illinois, November 2021.

Stumpf L, Zinzuwadia S, ^Ploussard B, Zinzuwadia S, Brahmbhatt E, Adam K, +Jawahar A. Peritoneal inclusion cyst with entrapped ovary: clinical diagnostic dilemma, imaging findings, and literature review. St. Albert's Day annual competition for researchers, Chicago, Illinois, November 2021.

Borys D, +Song A, Cooper A, +Lomasney LM. Giant cell tumor coexistent with aneurysmal bone cyst. Presentation at International Skeletal Society Annual Meeting Closed Session, October 17-22, 2021, virtual.

### **ORAL PRESENTATIONS**

\*Bindner H, \*Sullivan I, Reddy A, +Ozga T. BioSentry hydrogel plug for post-lung biopsy pneumothorax prevention in patients with emphysema. Presented at the Society of Interventional Radiology (SIR) Annual Conference, Boston, MA, June 11-16, 2022.

\*Anand R, \*Kus J, \*Sullivan I, \*Ness J, +Molvar C. Plug-assisted retrograde transvenous obliteration for the management of gastric varices and hepatic encephalopathy, a single

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institution experience. Oral Presentation at Global Embolization Society and Treatment (GEST 2022), New York, NY, May 21, 2022.

\*Kus J, ^Ramasamy S, ^Ploussard B, Joyce C, Bennis S, Fitzgerald C, Shea, Goldberg A, James J, Jawahar A. use of double-echo steady-state (DESS) sequence in the evaluation of pudendal nerve – A pilot trial. Oral presentation at 2022 ISMRM Annual Meeting, London, England, May 7-12, 2022.

+Jawahar A, Subbaiah P, Sheth V. Role of puborectalis thickness in the assessment of pelvic floor dysfunction and its correlation with HMO classification. Oral presentation at 2022 ISMRM Annual Meeting, London, England, May 7-12, 2022.

\*Burr T, \*Thorson D, +Goldberg A, +Jawahar A. peering at the pelvis: MR defecography evaluation of pelvic floor dysfunction. Oral presentation at American Roentgen Ray Society, New Orleans, LA, May 1-5, 2022.

\*Anand R, \*Lovrec P, +Goldberg A, +Jawahar A. Lessons learned during the pandemic, radiographic presentation of SARS-Cov-2 and associated complications in the chest. Oral Presentation at Chicago Radiological Society, Chicago, IL, January 20, 2022.

+James JR, +Bian J, +Halama JR. A robust method to quantitate tracer activity in organs and lesions with clinical SPECT/CT systems. Oral Presentation at AAPM 2021 63rd Annual Meeting, July 25 – 29, 2021. Virtual.

### **INVITED PROFESSOR and INVITED LECTURER**

+James JR. Indian Radiological and Imaging Association (IRIA) Global Meet, A handful of MRI Artifacts and Mitigation Strategies, December 12, 2021.

+Jawahar A. How can Radiologists contribute in decision making in pelvic floor dysfunction? A multidisciplinary conference with a lecture for the Urogynecology fellows, Loyola University Medical Center, November 10, 2021.

+Jawahar A. Interesting body imaging cases: Pearls and Pitfalls, scheduled to present virtually at the Global Radiology Summit 2021, an initiative of the Indian Radiological and Imaging Association, December 12, 2021.

### **DEPARTMENT OF RADIOLOGY RESIDENT GRAND ROUND PRESENTATIONS:**

Gjeluci, Albert: Imaging of the Post-operative Cranium – Management of Brain Tumors, April 20, 2022

Chaudhry, Hamza: Nonepithelial Pancreatic Neoplasms, April 1, 2022

Choudhari, Rishabh: Arthritis, March 17, 2022

Ansari, Owaiz: Paget's Disease, February 17, 2022

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Olivieri, John: Spyglass Percutaneous Cholangioscopy and Biliary Intervention, February 17, 2022

Boychev, George: Interstitial Lung Disease, January 27, 2022

Tade, Fumi: Common Cases in Nuclear Medicine, January 7, 2022.

Kus, Joseph: CT Radiomics: An Introduction: An Introduction. December 16, 2021

Aktan, Serra: Schwannomas and Beyond, October 11, 2021

Haque, Saem: Body Questions, October 1, 2021

Serrano David: Adrenal Lesions and Imaging, September 3, 2021

Burr, Tucker: MRI Difeography, September 3, 2021

Bindner, Hans: Cardiac and Thoracic Topics, August 19, 2021

Thorson, Deanna: CT of the Female Pelvis, August 19, 2021

### **GRANTS:**

\*Tade F, \*DiGrazia G, \*Yasin L, +Lomasney LM, +Song A, Savir-Baruch B, +Lim-Dunham J, +Allam E (PI). The Use of Modern Technology for Improving Ultrasound Education Among Medical Students in Loyola University. York Educational Grant 3/2020, two year, \$5000 award.

### **OTHER:**

+Wagner R, +Lomasney L. A device to incrementally separate mandible and maxilla to assist in evaluation of temporomandibular joint function. Submitted to the Technology Transfer Office, awaiting review.

+Lomasney L (PI), +Wagner R (Co-PI). IRB research project: device evaluation: A locally developed replacement device to assist in mandibular positioning for evaluation of the temporomandibular joint. 2021.

Jozefowski N, Tiew M, +Lomasney LM, Evans D. Guided X-ray learning module: upper extremity trauma. Electronic teaching module deployed for independent learning in Department of Orthopedics, September 15, 2021.

### **Last AY not reported:**

Ziegler A, El-Kouri N, Dymon Z, \*Serrano D, +Bashir M, Anderson D, Leonetti J. Sigmoid Sinus Patency following Vestibular Schwannoma Resection via Retrosigmoid versus Translabyrinthine Approach. J Neurol Surg B Skull Base. 2020 Aug 5;82(4):461-465. doi: 10.1055/s-0040-1713773. PMID: 35573914; PMCID: PMC9100442.