

# Report of Research Accomplishments



**2021**

**Beaumont**  
HEALTH

## **Report of Research Accomplishments Beaumont Health Research Institute**

For more than **55** years, researchers at Beaumont have helped to bring new technologies, new treatments, and new medications into the practice of medicine, and have helped to move the standard of care forward to improve the safety and quality of medical care for patients locally, nationally, and internationally. The greatest reward from these achievements is the realization that patients' lives are improved and enriched because of the outstanding research carried out by Beaumont physicians, scientists and staff.

Outstanding biomedical research is a major component of the excellent reputation of Beaumont Health as an academic health system. The Board of Directors at Beaumont made a commitment several decades ago to strengthen Beaumont as an academic institution through growth and support of graduate medical education, the hiring of physicians and scientists with a history of excellence in research and committed support of ongoing research activities of key programs. This commitment has helped to forge the reputation of Beaumont Health as a leading academic health system, with recognition by U.S. News and World Report, a distinction which places Beaumont in the forefront of medicine in the U.S.

With Beaumont Health's role as the health care affiliate of the Oakland University William Beaumont School of Medicine, our research activities, graduate medical education, and scholarly endeavors are even more important. Our Board of Directors and senior leadership have reaffirmed their commitment to this ongoing academic mission. Strong undergraduate medical education requires faculty committed to research and a broad, excellent program of graduate medical education. The ACGME (Accreditation Council on Graduate Medical Education) is steadily increasing the requirements for excellence in both faculty research achievement and resident/fellow research training in order to maintain full accreditation for residency and fellowship programs. The Board for Accrediting Level 1 Trauma Center status, presently achieved by Beaumont Royal Oak, now requires productivity of peer-reviewed publications in recognized journals by participating faculty. The LCME (Liaison Committee on Medical Education), the accrediting organization for medical schools in the U.S. and Canada, requires the presence of biomedical research activities that can provide basic, translational and population research opportunities for medical students. The OUWB medical school provides further impetus to enhance biomedical research at both Beaumont and Oakland University, to integrate research activities between the two institutions, and to initiate new programs, centers, and collaborative projects shared by both institutions. Beaumont and Oakland University already have several areas of long-standing ongoing research collaboration.

Beaumont research is heavily oriented towards translational research, investigating new treatments, pharmaceuticals, medical devices, and scientific approaches aimed at enhancing the excellence and safety of patient care. Beaumont has a robust program of clinical research, with over 1,200 trials. Beaumont's clinical services are superb, providing the standard upon which new and innovative research is built. The volume of patients served at Beaumont, combined with the excellence of clinical care, provides a striking opportunity to develop new treatments. Moving forward, Beaumont Health and OUWB will build upon existing research strengths in nationally recognized clinical and translational programs, including Cardiovascular Medicine, Oncology, Radiation Oncology, Urology, Orthopaedics, OB/GYN, Ophthalmology, Emergency Medicine and many others, to establish a new emphasis in population/community health and learning health system initiatives that will focus on improving health and healthcare delivery for our patients and communities.

We are proud to present this Report of Research Accomplishments. It highlights the depth and breadth of Beaumont's academic excellence, including our affiliation with OUWB. We extend our congratulations and appreciation to the many investigators who have contributed these extraordinary achievements.



# Beaumont Research Institute 2021 Fact Sheet



Beaumont Health, serving southern Michigan and beyond, recognizes the inherent value of research as a major contributing factor to future improvements in health care delivery and the health of our local and global communities. The Beaumont Research Institute (BRI), established by the Board of Trustees in 1966, strengthens Beaumont's ability to conduct medical research and to provide research training for allied health and medical staff and students in undergraduate and graduate medical education programs. Beaumont Health is a major teaching facility, with 78 accredited residency and fellowship programs involving 798 residents and 110 fellows, and 137 research staff.

## Funding

Research Institute actual operations \$28.1

## External Sources of Research Funding

▪ Non-Federal sponsors	35 %
▪ Federal sponsors	35 %
▪ Philanthropic sponsors	15 %
▪ Intellectual Property	15 %

## Types of Research at Beaumont Health

Percentage of expenses

▪ Clinical Research	67 %
▪ Pre-Clinical Research	33 %

## External Research Funding by Service Line

▪ Radiation Oncology	16 %
▪ Urology	16 %
▪ Orthopaedics	13 %
▪ Infectious Diseases	12 %
▪ Cardiology	7 %
▪ Emergency	7 %
▪ Hematology/Oncology	6 %
▪ Other Service Line	14 %
▪ Intellectual Property	9 %

## Clinical Research

- 1,469 clinical studies
- 379 interventional studies
- 1,090 non-interventional studies
- 410 active principal investigators
- 3,056 registered research participants

## Educational Opportunities for Research Staff

- 2-day orientation for new clinical research staff
- Animal use training
- Online CITI human subject's protection training
- Online guidance/modules on initiating research
- Seminar series and workshops

## Support Staff Available

- Accounting / Contracting / Administrative
- Biostatistics / Informatics
- Commercialization Center
- Compliance Office
- Grant Development
- Human Resources
- Institutional Animal Care and Use Committee
- Institutional Biosafety Committee
- Institutional Review Board
- Outcomes Research Group
- Research Data Management and Computing
- Research Education and Process Improvement

## Support for the Research Institute

- AAALAC accredited animal facility
- AAHRPP accredited human research protection program
- Beaumont Research Coordinating Center
- BioBank / Erb Family Core Molecular Lab
- Flash CT scanner
- Fully equipped bench laboratories
- National Cancer Institute Cooperative Group Trials Site
- Partnership with OUWB School of Medicine
- Proton Beam
- PET-CT and Biotracer

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# ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

## Peer Reviewed Articles:

Boudiab EM, Lapkus M, Reilly J, Studzinski D, Czako P, Asbahi M, et al, [**Schostak M, Schmidt C**]. Cervical endocrine surgery with a novel opioid-limited perioperative protocol. *Am Surg*. 2021 Jun 11;31348211025736. doi:10.1177/00031348211025736. PMID:34114505.

Dudaryk R, **Navas-Blanco JR**, Ferreira TD, Epstein RH. Failure to clear intermediate lactate levels in ward patients with admission blood cultures did not increase the risk of intensive care unit transfer or in-hospital mortality: A Retrospective Cohort Study. *Cureus*. 2021 Feb 13;13(2):e13326. doi:10.7759/cureus.13326. PMID:33738169.

Everson M, Wilbanks BA, **Hranchook AM**, Hirsch M, Clayton BA, Jordan LM, et al. From the operating room to the front lines: Shared experiences of nurse anesthetists during the Coronavirus pandemic. *AANA J*. 2021 Apr;89(2):109-116. PMID:33832570.

**Farina C, Hranchook AM, Bittinger AC**, Aebersold M. The flipped classroom with case-based learning in graduate nurse anesthesia education. *AANA J*. 2021 Jun;89(3):254-260. PMID:34042577.

**Golinski MA**. Implementation of magnesium sulphate as an adjunct to multimodal analgesic approach for perioperative pain control in lumbar laminectomy surgery: A randomized control-controlled clinical trial. *Anesth Abstr*. 2021;15(3):6-8.

Khanna AK, Jungquist CR, Buhre W, **Soto R**, Di Piazza F, Saager L et al. Modeling the cost savings of continuous pulse oximetry and capnography monitoring of United States general care floor patients receiving opioids based on the PRODIGY Trial. *Adv Ther*. 2021 Jul;38(7):3745-3759. doi:10.1007/s12325-021-01779-7. PMID:34031858.

Khanna AK, Saager L, Bergese SD, Jungquist CR, Morimatsu H, Uezono S, et al, [**Soto R**]. Opioid-induced respiratory depression increases hospital costs and length of stay in patients recovering on the general care floor. *BMC Anesthesiol*. 2021 Mar 20;21(1):88. doi:10.1186/s12871-021-01307-8. PMID:33743588.

Kline J, **Golinski M**, Selai B, Horsch J, Hornbaker K. The effectiveness of a blended POCUS curriculum on achieving basic focused bedside transthoracic echocardiography (TTE) proficiency. A formalized pilot study. *Cardiovasc Ultrasound*. 2021 Dec 9;19(1):39. doi:10.1186/s12947-021-00268-9. PMID:34886847.

**Lau WC**, Shannon FL, Bolling SF, Romano MA, Sakwa MP, Trescot A, et al. Intercostal cryo nerve block in minimally invasive cardiac surgery: The Prospective Randomized FROST Trial. *Pain Ther*. 2021 Dec;10(2):1579-1592. doi:10.1007/s40122-021-00318-0. PMID:34545530.

Minkowitz H, **Soto R**, Fanikos J, Hammer GB, Mehta N, Hu J, et al. Opioid-free recovery after hernia repair with HTX-011 as the foundation of a non-opioid, multimodal analgesia regimen in a real-world setting: A Randomized, open-label study. *Pain Ther*. 2021 Dec;10(2):1295-1308. doi:10.1007/s40122-021-00289-2. PMID:34318438.

**Navas-Blanco JR**, Lifgren SA, Dudaryk R, Scott J, Loebe M, Ghodsizad A. Parallel veno-venous and veno-arterial extracorporeal membrane circuits for coexisting refractory hypoxemia and cardiovascular failure: A case report. *BMC Anesthesiol*. 2021 Mar 12;21(1):77. doi:10.1186/s12871-021-01299-5. PMID:33711919.

**Navas-Blanco JR**, Martini A, Fabbro M 2nd. Expert consensus decision pathway of the American College of Cardiology on management of bleeding in patients with oral anticoagulants: A review of the

2020 update for perioperative physicians. *J Cardiothorac Vasc Anesth.* 2021 Aug;35(8):2471-2479. doi:10.1053/j.jvca.2021.02.024. PMID:33726942.

**Navas-Blanco JR**, Miranda J, Gonzalez V, Mohammed A, Aljure OD. Supra-systemic pulmonary hypertension after complicated percutaneous mitral balloon valvuloplasty: A case report and review of literature. *BMC Anesthesiol.* 2021 Oct 27;21(1):258. doi:10.1186/s12871-021-01481-9. PMID:34706655.

**Navas-Blanco JR**, Vaidyanathan A, Blanco PT, Modak RK. CON: Pulmonary artery catheter use should be forgone in modern clinical practice. *Ann Card Anaesth.* 2021 Jan-Mar;24(1):8-11. doi:10.4103/aca.ACA\_126\_19. PMID:33938824.

**Navas-Blanco JR**, Williams DV, Modak RK. Analyzing the impact of preoperative interrogation of cardiac implantable electronic devices. *Ann Card Anaesth.* 2021 Oct-Dec;24(4):447-451. doi:10.4103/aca.ACA\_32\_20. PMID:34747752.

Pancaró C, Purtell J, LaBuda D, Saager L, Klumpner TT, Dubovoy T, et al, **[Vahabzadeh C]**. Difficulty in advancing flexible epidural catheters when establishing labor analgesia: An observational open-label randomized trial. 2021;133(1):151–9. PMID:33835077

Rehman R, Saadat SB, Tran DH, **Constantinescu S**, Qamruzzaman Y. Recurrent hyperhemolysis syndrome in sickle cell disease. *Cureus.* 2021 May 12;13(5):e14991. doi:10.7759/cureus.14991. PMID:34131536.

Szabo C, Betances-Fernandez M, **Navas-Blanco JR**, Modak RK. PRO: The pulmonary artery catheter has a paramount role in current clinical practice. *Ann Card Anaesth.* 2021 Jan-Mar;24(1):4-7. doi:10.4103/aca.ACA\_125\_19. PMID:33938823.

### **Invited Research Presentations:**

Aggarwal S, Bloomingdale R, Bradshaw J, Brown OW, **Lau W**, Vivacqua A. New techniques for the minimally invasive treatment of aortic disease. *Beaumont Health On Demand Series.* Dec 17, 2021. Virtual.

Ahmed A, **Cruz AJ**, **Soto RG**. COVID toes: Unusual manifestation of infection with coronavirus. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/4723>

**Ahmed R**, Parry N, **Kado JA**, **Soto RG**. Massive hemorrhage from rectal varices secondary to portal hypertension in alcoholic cirrhosis. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-1, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5765>

**Ahmed R**, Parry N, **Soto RG**. Acute angioedema in a COVID-19 positive patient requiring intubation. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5291>

**Aiello A**, **Daklallah Y**, **Asbahi M**. Copper deficiency and polyneuropathy in the critically ill. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/4980>

**Aiello A**, **Daklallah Y**, **Soto RG**. A rare case of tropheryma whipplei endocarditis. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5706>

**Aiello A**, **Daklallah Y**, **Soto RG**. Incidental finding of varicella zoster pneumonia on chest x ray. The American Society of Anesthesiology, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/4746>

**Al-Attar N, Skolnik B.** MacGyvered heliox adapter during awake tracheostomy. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5871>

**Al-Attar N, Vahabzadeh C.** Pneumomediastinum: A rare complication of laryngospasm. The American Society of Anesthesiology Annual Meeting, 2021 Oct 9-11, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4540>

**Banoub M.** Intraoperative 2&3-D TEE guiding the surgical repair of anomalous right coronary artery origin from the left aortic sinus. The Society of Cardiovascular Anesthesiologists Annual Meeting, 2021 Apr 24-27. Virtual.

**Bittinger AC.** Emotional intelligence and nurse anesthesia. The Nebraska Association of Nurse Anesthetists Fall Conference, 2021 Oct 29-31, Omaha, NE.

**Bittinger, A.** Emotional intelligence and nurse anesthesia. The 7th Annual Lourdes University Nurse Anesthesia Conference, 2021 Mar 24, Perrysburg, OH.

**Bittinger A.** Impairment in anesthesia. The Nebraska Association of Nurse Anesthetists Fall Conference, 2021 Oct 29-31, Omaha, NE.

Boudiab E, Lapkus M, Reilly J, Studzinski DM, Czako P, Asbahi M, et al, **[Schostak M, Schmidt C]**. Cervical endocrine surgery with a novel opioid-limited perioperative protocol. The 68th Annual Meeting of the Michigan Chapter of the American College of Surgeons, 2021 May 12-14. Virtual.

Caskey B, **Dakhlallah N, Soto RG.** Management of intractable abdominal pain secondary to acute gallstone pancreatitis, including the use of ketamine. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5877>

Caskey B, **Dakhlallah N, Soto RG.** Sequelae of traumatic rib fractures. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5082>

**Chokr M, Nowatzke RW, Manders LM.** Approach to difficult airway in patients with subglottic mass. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5888>

**Chokr M, Nowatzke RW, Soto RG.** Endocarditis and anesthetic implications of complex cardiac surgery. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4310>

**Clemans R.** Prescribing controlled substances for primary care providers. Beaumont Health Symposium for Primary Care Medicine, Nov 5-6, 2021. Virtual.

**Constantinescu S, Soto RG, Al-Attar NC.** Aberrant right subclavian artery with esophago-arterial fistula. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4802>

**Constantinescu S, Soto RG.** Massive transfusion: A discussion of ethical principles. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5462>

**Cruz A, Ahmed A, Markatos SN, Manders L.** Compromised compliance: Chest wall rigidity and glottic closure after opioid administration. The American Society of Anesthesiology Annual Meeting, 2021 Oct 9-11, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/4628>



**Cruz A**, Ahmed A, **Markatos SN**, **Vahabzadeh CM**. Ruptured fault line: Extensive pelvic organ rupture following trial of labor after cesarean. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5676>

**Cruz A**, Rusli P, **Dakhlallah N**, **Manders L**. Aftershock: Asystole during intubation in a patient with spinal shock. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5524>

**Dakhlallah N**, **Cruz AJ**, Bazy Y, **Moussa AR**. Intrathecal migration of epidural catheter. The American Society of Anesthesiology, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4909>

**Dakhlallah N**, Fuentes P, **Soto RG**. Association of ketamine with PTSD in the perioperative setting: a literature review. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://asaabstracts.com/strands/asaabstracts/abstract.htm?year=2021&index=7&absnum=6175>

**Dakhlallah N**, **Nowatzke RW**, Kopel L, **Asbahi MF**. Cerebrovascular accident under general anesthesia. The American Society of Anesthesiology, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5444>

**Dakhlallah N**, **Nowatzke RW**, Bazy Y, **Moussa AR**. Severe bradycardia and Down syndrome. The American Society of Anesthesiology Annual Meeting, 2021 Oct 9-11, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4507>

**Dakhlallah Y**, **Aslani K**. Upper airway obstruction in a pediatric patient. The American Society of Anesthesiology Annual Meeting, 2021 Oct 9-11, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4576>

**Dakhlallah Y**, **Lau W**. Severe protamine reaction during multivalvular cardiac surgery. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4898>

Donnay K, Howard E, Krueger L, **McDonald L**, Nelson K. Creation and implementation of an intraoperative lidocaine infusion protocol for gastric surgery. American Association of Nurse Anesthesiology, 2021 Annual Congress, 2021 Aug 13-17. Virtual.

Everson M, Wilbanks BA, **Hranchook AM**, Hirsch M, Clayton BA, Jordan LM et al. From the operating room to the front Lines: Shared experiences of nurse anesthetists during the coronavirus pandemic. American Association of Nurse Anesthesiology, 2021 Annual Congress. 2021 Aug 13-17. Virtual.

Ford E, **Al-Attar NC**, **Soto RG**. Anesthetic management during an exploratory laparotomy. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5845>

**Ford E**, **Al-Attar NC**, **Soto RG**. Importance of planning for unexpected intraoperative events. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4770>

**Haddad M**, **Asbahi MF**. Causes of cardiac arrest - the common and the curious. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5519>

**Haddad M, Asbahi MF.** ECMO - the details and when to call it quits. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.  
<https://www.abstractsonline.com/pp8/#!/9323/presentation/5140>

Harley J, **Khan H, Soto RG.** High spinal management during emergency c-section. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.  
<https://www.abstractsonline.com/pp8/#!/9323/presentation/5008>

Harley J, **Khan H, Soto RG.** To anticoagulate or not to anticoagulate. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.  
<https://www.abstractsonline.com/pp8/#!/9323/presentation/4841>

Heintschel A, **Markatos SN, Soto RG.** Costs and benefits of robotic-assisted laparoscopic hysterectomy in a patient with multiple fibroids. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.  
<https://www.abstractsonline.com/pp8/#!/9323/presentation/5892>

Heintschel A, **Markatos SN, Soto RG.** Management of suboptimal spinal anesthesia during cesarean section. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.  
<https://www.abstractsonline.com/pp8/#!/9323/presentation/5241>

Jahshan A, Markatos S, Soto RG. Anesthetic challenges of a laboring patient with scoliosis. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.  
<https://www.abstractsonline.com/pp8/#!/9323/presentation/5393>

Jahshan A, **Markatos SN, Soto R.** Diagnosis and management in a patient with suspected placental abruption and possible uterine rupture. The American Society of Anesthesiology Annual Meeting, 2021 Oct 9-11, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/4614>

Jahshan A, **Markatos S, Soto RG.** Multifactorial coagulopathy in a patient receiving a simultaneous liver / kidney transplant. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5254>

**Khan H, Nowatzke RW, Soto RG.** Hidden morbidity - abdominal compartment syndrome. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.  
<https://www.abstractsonline.com/pp8/#!/9323/presentation/5690>

**Khan H, Nowatzke RW, Tatum D.** Tapia syndrome following shoulder surgery. The American Society of Anesthesiology Annual Meeting, 2021 Oct 9-11, San Diego, CA.  
<https://www.abstractsonline.com/pp8/#!/9323/presentation/4581>

Kopel L, **Dakhlallah N, Soto R.** Approach and decision-making in a 6-year old with a large trichobezoar. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5778>

Kopel L, **Dakhlallah N, Soto RG.** Delaying repair to avoid the lethal triad during trauma resuscitation. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.  
<https://www.abstractsonline.com/pp8/#!/9323/presentation/4863>

**Kraemer J, Lau S, Yaldou BJ, Soto R.** The Michigan modified opioid risk tool: Screening for dependence in opioid naive patients. The Annual Meeting of the American Society of Anesthesiologists, 2021 Oct 8-12, San Diego, CA.

**Laney M, Khan H, Vahabzadeh CM.** Neuraxial anesthesia in maternal coagulopathy: Post-procedure monitoring and management. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5507>

**Laney M, Nowatzke RW, Kado J.** Liver failure following proper hepatic artery embolization. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5671>

**Lau S, Maheshwari N, Asbahi MF.** Balancing hemodynamics in the management of sepsis and cor pulmonale. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5501>

**Lau S, Maheshwari N, Asbahi MF.** The one-two punch of cardiac arrest: Disseminated intravascular coagulation after return of spontaneous circulation. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4903>

**Le D, Yousef J, Soto RG.** Autoimmune encephalitis: The diagnosis of exclusion. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4982>

**Le D, Yousef J, Soto RG.** Medical neglect of an adult dependent. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5135>

**Lee A, Nowatzke RW, Chokr M, Soto RG.** Emergency airway management after tissue plasminogen activator induced angioedema. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5425>

**Lee A, Nowatzke RW, Chokr M, Soto RG.** Vv ECMO use in COVID-19 induced acute hypoxemic respiratory failure. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4761>

**Maheshwari N, Asbahi M.** Complications of tracheostomy. The American Society of Anesthesiology Annual Meeting, 2021 Oct 9-11, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4645>

**Maheshwari N, Vahabzadeh CM.** Management of postpartum eclampsia. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5184>

**Markatos S, Behbahani-Nejad N, Banoub M.** Anesthetic management of children with congenital disorders of glycosylation. The American Society of Anesthesiology Annual Meeting, 2021 Oct 9-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5339>

**Markatos S, Cruz AJ, Aslani K.** Airway management in neonates with craniofacial abnormalities.

The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/5641>

**Markatos S, Cruz AJ, Haddad M, Vahabzadeh CM.** When NMDA receptors are under attack, which anesthetic choice is best? The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4861>

**Nguyen A, Caskey BD, Al-Attar N, Forrest M.** Application of virtual reality for the reduction of pre-operative childhood anxiety: A pre-operative virtual tour. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4372>

**Nguyen A, Daklallah Y, Soto RG.** Paroxysmal atrial fibrillation and a broken heart: Anesthetic goals for cardioversion. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4919>

Nguyen A, **Daklallah Y, Soto RG**. Open abdominal aortic aneurysm repair: Hemodynamics of supraceliac vs infrarenal cross-clamping. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/4938>

Nierstedt R, **Markatos SN, Soto RG**. Management of an upper airway obstruction causing respiratory compromise. The American Society of Anesthesiology Annual Meeting, 2021 Oct 9-11, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/4590>

Nierstedt R, **Markatos SN, Soto RG**. Perioperative management of a massive desmoid tumor resection in a pediatric patient. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5604>

**Nowatzke RW, Chokr M, Asbahi M**. Emergency airway management in the setting of a rapidly expanding neck hematoma. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/4883>

**Nowatzke RW, Chokr M, Aslani K**. Acute airway bleeding in 2-month-old status-post supraglottoplasty. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5112>

**Nowatzke RW, Fuentes P, Lee A, Soto RG**. Sugammadex availability and usage patterns. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/4431>

Parry N, **Ahmed R, Maheshwari N, Khatoun T**. Anticoagulation in patients with mechanical heart valves. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5304>

Parry N, **Ahmed R, Maheshwari N, Soto RG**. Presentation and management of intraoperative inferior vena cava injury. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5285>

**Reilly E, Behbahani-Nejad N, Banoub MF, Price M**. Difficult airway management in the setting of aortic stenosis and hemodynamic instability. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5783>

**Reilly E, Behbahani-Nejad N, Price M**. Leptomeningeal Carcinomatosis and the ethical dilemmas of surgical intervention. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5086>

**Reilly E, McMahon S, Soto R**. Rapid spread and rapid sequence: How COVID-19 affected airway management and surgical volume at a major Michigan hospital. The Postgraduate Assembly in Anesthesiology (PGA) 75th Annual Meeting, 2021 Dec 10-13, New York City, NY. <https://epostersonline.com/pga2021/node/750>

**Reilly E, Soto RG, Ahmed A**. Whose spine is it anyways? A quality improvement initiative to optimize outcomes in patients undergoing spine surgery. The Annual Meeting of the American Society of Anesthesiologists, 2021 Oct 8-12, San Diego, CA.

**Rodgers L**. Virtual reality ... The new normal? The 7th Annual Lourdes University Nurse Anesthesia Conference, 2021 Mar 24, Perrysburg, OH.

Rusli P, **Cruz A, Aslani K**. Rare complications of laparoscopic surgery with a focus on subcutaneous emphysema. The American Society of Anesthesiology Annual Meeting, 2021 Oct 9-11, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/4520>

**Shannon L.** Anesthesia for TAVR, when less is more. Michigan Association of Nurse Anesthetists 2021 Spring Conference. 2021 Mar 26-27. Rochester, MI. Virtual.

**Stevenson A.** Behavioral Health On Demand: Psychotherapeutic interventions for chronic pain. Beaumont Behavioral Health on Demand. Apr 13, 2021. Virtual.

Vecore J, Baich J, **McDonald L.** Examining enhanced recovery after surgery (ERAS) protocol compliance. American Association of Nurse Anesthesiology, 2021 Annual Congress, 2021 Aug 13-17. Virtual.

**Yousef J, Soto RG, Price MD.** Intra-operative resuscitation of gastrointestinal stromal tumors. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4339>

**Yousef J, Soto RG.** Peri-operative management of peri-partum heart failure. The American Society of Anesthesiology Annual Meeting, 2021 Oct 9-11, San Diego, CA.

<https://www.abstractsonline.com/pp8/#!/9323/presentation/4532>

**Zhang J, Chokr M, Clemans RR, Sapeika D.** MRSA bacteremia and spondylodiscitis after trigger point injections. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/4970>

**Zhang J, Chokr M, Clemans RR.** Pain management of post-herpetic neuralgia in disseminated herpes zoster. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/4751>

#### **Multimedia:**

Mitzova-Vladinov G, **Rodgers L.** Extended reality - the evolution of anesthesia training. Society for Simulation in Healthcare. Oct 25, 2021. <https://www.ssih.org/Professional-Development/Online-Learning/SimSeries-Webinars/2021-SimSeries-Webinars>

# BIOBANK

## Peer Reviewed Articles:

Akyol O, Tessier K, **Akyol S**. Accuracy and uniformity of the nomenclature of biogenic amines and polyamines in metabolomics studies: A preliminary study. *Biochem Mol Biol Educ*. 2021 May;49(3):441-445. doi:10.1002/bmb.21497. PMID:33682332.

Almahariq MF, Quinn TJ, Arden JD, Roskos PT, **Wilson GD**, Marples B, et al. Pulsed radiation therapy for the treatment of newly diagnosed glioblastoma. *Neuro Oncol*. 2021 Mar 25;23(3):447-456. doi:10.1093/neuonc/noaa165. PMID:32658268.

Alpay Savasan Z, Kim SK, Oh KJ, **Graham SF**. Advances in cerebral palsy biomarkers. *Adv Clin Chem*. 2021;100:139-169. doi:10.1016.

Bahado-Singh RO, Vishweswaraiah S, Aydas B, Yilmaz A, Metpally RP, Carey DJ, et al, **[Wilson GD]**. Artificial intelligence and leukocyte epigenomics: Evaluation and prediction of late-onset Alzheimer's disease. *PLoS One*. 2021 Mar 31;16(3):e0248375. doi:10.1371/journal.pone.0248375. PMID:33788842.

Paul J, **Yilmaz A**, Pieper B, Liu Z, **Graham SF**. Prospective comparative study: Metabolomics profiles of exudate and serum for patients with and without venous ulcer wound itch. *Itch*. 2021 Apr-Jun;6(2):e46 doi:10.1097/itx.0000000000000046.

Wang LB, Karpova A, Gritsenko MA, Kyle JE, Cao S, Li Y, et al, **[Wilson GD]**. Proteogenomic and metabolomic characterization of human glioblastoma. *Cancer Cell*. 2021 Apr 12;39(4):509-528.e20. doi:10.1016/j.ccell.2021.01.006. PMID:33577785.

Yan D, Chen S, Krauss DJ, Deraniyagala R, Chen P, Ye H, et al, **[Wilson G]**. Inter/intra-tumoral dose response variations assessed using FDG-PET/CT feedback images: Impact on tumor control and treatment dose prescription. *Radiother Oncol*. 2021 Jan;154: 235-242. doi:10.1016.

## Abstracts with Associated Research Publications:

Vadas J, Halford R, **Wilson G**, Yan D, Snyder M. Analog FLASH pulse integration using an external diode circuit. *Med Phys* 2021 Jun;48(6);e415.

# CARDIOVASCULAR MEDICINE

## Peer Reviewed Articles:

**Abbas AE, Mando R, Kadri A, Khalili H, Hanzel G, Shannon F, et al.** Comparison of transvalvular aortic mean gradients obtained by intraprocedural echocardiography and invasive measurement in balloon and self-expanding transcatheter valves. *J Am Heart Assoc.* 2021 Oct 5;10(19):e021014. doi:10.1161/JAHA.120.021014. PMID:34585593.

**Abbas AE, Ternacle J, Pibarot P, Xu K, Alu M, Rogers E, et al.** Impact of flow on prosthesis-patient mismatch following transcatheter and surgical aortic valve replacement. *Circ Cardiovasc Imaging.* 2021 Aug;14(8):e012364. doi:10.1161/CIRCIMAGING.120.012364. PMID:34387097.

Acun C, Nusairat L, **Kadri A, Nusairat A, Yeane N, Abu Shaweesh J, et al.** Pneumothorax prevalence and mortality per gestational age in the newborn. *Pediatr Pulmonol.* 2021 Aug;56(8):2583-2588. doi:10.1002/ppul.25454. PMID:34002954.

Al-Khadra Y, Sattar Y, Ullah W, Moussa Pacha H, Baibars M, Darmoch F, et al, **[Asfour AI]**. Temporal trends and outcomes in utilisation of transcatheter and surgical aortic valve therapies in aortic valve stenosis patients with heart failure. *Int J Clin Pract.* 2021 Mar;75(3):e13711. doi:10.1111/ijcp.13711. PMID:32955776.

Allam S, McDowell E, Heard B, Kim T, Luu E, Muto C, et al, **[Mehta N]**. A novel disinfection protocol using ATP testing for lead garments in the electrophysiology lab. *J Interv Card Electrophysiol.* 2021 Dec;62(3):565-568. doi:10.1007/s10840-020-00936-2. PMID:33421019.

Araya-Ramírez F, Moncada-Jiménez J, Grandjean PW, **Franklin BA.** Improved walk test performance and blood pressure responses in men and women completing cardiac rehabilitation: Implications regarding exercise trainability. *Am J Lifestyle Med* 2021 Feb: 1559827621995129. doi:10.1177/1559827621995129.

Bansal P, Maini A, **Abbas A, Pibarot P, Maini B, Khalili H.** Transaortic flow in aortic stenosis: Stroke volume index versus transaortic flow rate. *J Am Soc Echocardiogr.* 2021 Aug 27:S0894-7317(21)00669-6. doi:10.1016/j.echo.2021.08.016. PMID:34461252.

Bax AM, van Rosendaal AR, Ma X, van den Hoogen IJ, Gianni U, Tantawy SW, et al, **[Chinnaiyan K]**. Comparative differences in the atherosclerotic disease burden between the epicardial coronary arteries: Quantitative plaque analysis on coronary computed tomography angiography. *Eur Heart J Cardiovasc Imaging.* 2021 Feb 22;22(3):322-330. doi:10.1093/ehjci/jeaa275. PMID:33215192.

Bax AM, Yoon YE, Gianni U, Ma X, Lu Y, Lee BC, et al, **[Chinnaiyan K]**. Plaque character and progression according to the location of coronary atherosclerotic plaque. *Am J Cardiol.* 2021 Aug 28:S0002-9149(21)00729-3. doi:10.1016/j.amjcard.2021.07.040. PMID:34465463.

**Bowers T, Goldstein JA.** Hemodynamic compromise in pulmonary embolism: A tale of two ventricles. *Catheter Cardiovasc Interv.* 2021 Feb 1;97(2):299-300. doi:10.1002/ccd.29497. PMID:33587803.

**Bradley CJ, Williamson BD, George J, Haines DE.** Protocol driven periprocedural anticoagulation for left atrial ablation. *J Cardiovasc Electrophysiol.* 2021 Mar;32(3):639-646. doi:10.1111/jce.14892. PMID:33476459.

**Brewer J, Bartlett M, Harris D, Hui C.** Improving communication between healthcare providers and pulmonary arterial hypertension patients: A survey of patient preferences. *Pulm Circ.* 2021 May 21;11(2):20458940211015813. doi:10.1177/20458940211015813. PMID:34094504.

Cami E, Tagami T, Raff G, Gallagher MJ, Fan A, Hafeez A, et al, **[George J]**. Importance of measurement site on assessment of lesion-specific ischemia and diagnostic performance by coronary computed tomography angiography-derived fractional flow reserve. *J Cardiovasc Comput Tomogr*. 2021 Mar-Apr;15(2):114-120. doi:10.1016.

Carroll JD, Mack MJ, Vemulapalli S, Herrmann HC, Gleason TG, **Hanzel G**, et al. STS-ACC TVT registry of transcatheter aortic valve replacement. *Ann Thorac Surg*. 2021 Feb;111(2):701-722. doi:10.1016.

Chahine J, **Kadri AN**, Gajulapalli RD, Lak H, Krishnaswamy A, Reed G, et al. Outcomes of mild aortic regurgitation after transcatheter aortic valve replacement. *Structural Heart*. 2021 Mar 1;5(2):201-7.

Chen S, David SW, Khan ZA, Metzger DC, Wasserman HS, Lotfi AS, et al, **[Hanson ID, Dixon SR]**. One-year outcomes of supersaturated oxygen therapy in acute anterior myocardial infarction: The IC-HOT study. *Catheter Cardiovasc Interv*. 2021 May 1;97(6):1120-1126. doi:10.1002/ccd.29090. PMID:32649037.

**Chinnaiyan K**, Januzzi JL Jr. Biomarkers and imaging in chest pain: The iceberg beneath the waterline. *J Am Coll Cardiol*. 2021 Oct 5;78(14):1418-1420. doi:10.1016/j.jacc.2021.08.004. PMID:34593123.

**Chinnaiyan KM**, Revankar R, Shapiro MD, Kalra A. Heart, mind, and soul: Spirituality in cardiovascular medicine. *Eur Heart J*. 2021 Mar 11;ehab080. doi:10.1093/eurheartj/ehab080. PMID:33704452.

Conte E, Dwivedi A, Mushtaq S, Pontone G, Lin FY, Hollenberg EJ, et al, **[Chinnaiyan K, Raff GL]**. Age- and sex-related features of atherosclerosis from coronary computed tomography angiography in patients prior to acute coronary syndrome: Results from the ICONIC study. *Eur Heart J Cardiovasc Imaging*. 2021 Jan 1;22(1):24-33. doi:10.1093/ehjci/jeaa210. PMID:32793985.

Donisan T, **Mertens A, Sayed L**. Kawasaki related coronary artery disease refractory to angioplasty: The role of intravascular shockwave lithotripsy. *Cureus*. 2021 Oct 25;13(10):e19020. doi:10.7759/cureus.19020. PMID:34853747.

Donisan T, **Sayed L**. Dual ostia right coronary artery: A newly described coronary anomaly. *JACC Cardiovasc Interv*. 2021 Apr 12;14(7):e69-e70. doi:10.1016.

Eng MH, **Abbas AE**, Hahn RT, Lee J, Wang DD, et al. Real world outcomes using 20 mm balloon expandable SAPIEN 3/ultra valves compared to larger valves (23, 26, and 29 mm)-a propensity matched analysis. *Catheter Cardiovasc Interv*. 2021 May 13. doi:10.1002/ccd.29756. PMID:33984182.

Fisher R, Bennett MJ, Paternoster R, Karabon P, **Devlin W**, Swor R. Utility of abnormal head computed tomography in predicting outcome in out-of-hospital cardiac arrest victims. *Ther Hypothermia Temp Manag*. 2021 Sep;11(3):164-169. doi:10.1089.

**Franklin BA**. Evolution of the ACSM guidelines historical perspectives, new insights, and practical implications. *ACSM's Health and Fitness Journal*. 2021 Mar/Apr;25(2):26-32. doi:10.1249/FIT.0000000000000645.

**Franklin BA, Rusia A, Haskin-Popp C, Tawney A**. Chronic stress, exercise and cardiovascular disease: Placing the benefits and risks of physical activity into perspective. *Int J Environ Res Public Health*. 2021 Sep 21;18(18):9922. doi:10.3390/ijerph18189922. PMID:34574843.

Garcia S, Stanberry L, Schmidt C, Sharkey S, Megaly M, Albaghdadi MS, et al, **[Dixon SR]**. Impact of COVID-19 pandemic on STEMI care: An expanded analysis from the United States. *Catheter Cardiovasc Interv*. 2021 Aug 1;98(2):217-222. doi:10.1002/ccd.29154. PMID:32767652.



Garg J, **Shah K**, Shah S, Turagam MK, Natale A, Lakkireddy D. Implantable cardioverter-defibrillator in patients with spontaneous coronary artery dissection presenting with sudden cardiac arrest. *J Cardiovasc Electrophysiol*. 2021 Sep;32(9):2595-2600. doi:10.1111/jce.15201. PMID:34379349.

Garg J, **Shah K**, Shah S, Turagam MK, Natale A, Lakkireddy D. Left atrial appendage occlusion with new Watchman-FLX device. *Am J Cardiol*. 2021 Sep 1;54:135-137. doi:10.1016/j.amjcard.2021.04.001. PMID:34330451.

Garg J, **Shah K**, Turagam MK, Natale A, Lakkireddy D. Rhythm- versus rate-control in atrial fibrillation-ELECTRAM investigators. *Am J Ther*. 2021 Sep-Oct 01;28(5):e581-e583. doi:10.1097/MJT.0000000000001349. PMID:34491956.

Garg J, Shah S, **Shah K**, Turagam MK, Natale A, Lakkireddy D. HIS-bundle pacing following transcatheter aortic valve replacement. *Pacing Clin Electrophysiol*. 2021 Oct;44(10):1786-1789. doi:10.1111/pace.14351. PMID:34435679.

Garg J, Shah S, **Shah K**, Turagam MK, Natale A, Lakkireddy D. Renal sympathetic denervation for the treatment of recurrent ventricular arrhythmias-ELECTRAM investigators. *Pacing Clin Electrophysiol*. 2021 May;44(5):865-874. doi:10.1111/pace.14230. PMID:33786832.

**Goldstein JA**. Hemodynamic complications of right ventricular infarction: Role of the right atrium. *JACC Case Rep*. 2021 Aug 4;3(9):1174-1176. doi:10.1016/j.jaccas.2021.02.045. PMID:34401753.

Gurm Z, Seth M, Daher E, Pielsticker E, Qureshi MI, Zainea M, et al, [**Tucciarone M, Hanzel G**]. Prevalence of coronary risk factors in contemporary practice among patients undergoing their first percutaneous coronary intervention: Implications for primary prevention. *PLoS One*. 2021 Jun 9;16(6):e0250801. doi:10.1371/journal.pone.0250801. PMID:34106945.

Halalau A, Halalau M, Carpenter C, **Abbas AE**, Sims M. Vestibular neuritis caused by severe acute respiratory syndrome coronavirus 2 infection diagnosed by serology: Case report. *SAGE Open Med Case Rep*. 2021 May 13;9:2050313X211013261. doi:10.1177/2050313X211013261. PMID:34035914.

Halalau A, Odish F, Imam Z, Sharrak A, Brickner E, Lee PB, et al, [**Abbas AE**]. Epidemiology, clinical characteristics, and outcomes of a large cohort of covid-19 outpatients in Michigan. *Int J Gen Med*. 2021 Apr 28;14:1555-1563. doi:10.2147/IJGM.S305295. PMID:33953603.

Han D, Chen B, Gransar H, Achenbach S, Al-Mallah MH, Budoff MJ, et al, [**Chinnaiyan K**]. Prognostic significance of plaque location in non-obstructive coronary artery disease: From the CONFIRM registry. *Eur Heart J Cardiovasc Imaging*. 2021 Nov 15;jeab223. doi:10.1093/ehjci/jeab223. PMID:34791117.

Hanigan S, Kong X, Haymart B, Kline-Rogers E, Kaatz S, Krol G, et al, [**Almany S**]. Standard versus higher intensity anticoagulation for patients with mechanical aortic valve replacement and additional risk factors for thromboembolism. *Am J Cardiol*. 2021 Nov 15;159:100-106. doi:10.1016/j.amjcard.2021.08.023. PMID:34656311.

Hite A, Karabon P, **Mando R, Hanzel G**, Shannon F, **Abbas AE**. The Impact of energy loss index and body mass index on prosthesis patient mismatch. *Structural Heart*. 2021 Jul 1;5(4):376-81.

Hwang D, Kim HJ, Lee SP, Lim S, Koo BK, Kim YJ, et al, [**Chinnaiyan K, Raff GL**]. Topological data analysis of coronary plaques demonstrates the natural history of coronary atherosclerosis. *JACC Cardiovasc Imaging*. 2021 Jan 13;S1936-878X(20)31014-7. doi:10.1016.

Ionescu F, Jaiyesimi I, Petrescu I, Lawler PR, Castillo E, Munoz-Maldonado Y, et al, [**Abbas AE**]. Association of anticoagulation dose and survival in hospitalized COVID-19 patients: A retrospective

propensity score-weighted analysis. *Eur J Haematol*. 2021 Feb;106(2):165-174. doi:10.1111/ejh.13533. PMID:33043484.

Ionescu F, Zimmer MS, Petrescu I, Castillo E, Bozyk P, **Abbas A**, et al. Extubation failure in critically ill Covid-19 patients: Risk factors and impact on in-hospital mortality. *J Intensive Care Med*. 2021 Sep;36(9):1018-1024. doi:10.1177/08850666211020281. PMID:34074160.

Jae SY, Bunsawat K, Kurl S, Kunutsor SK, Fernhall B, **Franklin BA**, et al. Cardiorespiratory fitness attenuates the increased risk of sudden cardiac death associated with low socioeconomic status. *Am J Cardiol*. 2021 Apr 15;145:164-165. doi:10.1016/j.amjcard.2021.01.012. PMID:33503411.

Jae SY, Heffernan K, Kurl S, Kunutsor SK, **Franklin BA**, Savonen K, et al. Chronotropic response to exercise testing and the risk of stroke. *Am J Cardiol*. 2021 Mar 15;143:46-50. doi:10.1016.

Jae SY, Heffernan KS, Kurl S, Kunutsor SK, Kim CH, Johnson BD, et al, **[Franklin BA]**. Cardiorespiratory fitness, inflammation, and the incident risk of pneumonia. *J Cardiopulm Rehabil Prev*. 2021 May 1;41(3):199-201. doi:10.1097/HCR.0000000000000581. PMID:33560044.

Jae SY, Kurl S, Bunsawat K, **Franklin BA**, Choo J, Kunutsor SK, et al. Impact of cardiorespiratory fitness on survival in men with low socioeconomic status. *Eur J Prev Cardiol*. 2021 May 8;28(4):450-455. doi:10.1177/2047487319901057. PMID:33966081.

Jin HY, Weir-McCall JR, Leipsic JA, Son JW, Sellers SL, Shao M, et al, **[Chinnaiyan K, Raff G]**. The Relationship between coronary calcification and the natural history of coronary artery disease. *JACC Cardiovasc Imaging*. 2021 Jan;14(1):233-242. doi:10.1016.

Kadavath S, Hawwas D, Strobel A, Mohan J, **Bernardo M**, Kassier A, et al. How the COVID-19 pandemic has affected cardiology fellow training. *Am J Cardiol*. 2021 Jul 15;151:114-117. doi:10.1016/j.amjcard.2021.03.052. PMID:34052015.

**Kadri AN, Bernardo M, Assar SZ, Werns S, Abbas AE**. Surgical versus transcatheter aortic valve replacement in patients with malignancy. *Cardiovasc Revasc Med*. 2021 Feb;23: 59-65. doi:10.1016.

**Kadri AN**, Chahine J, Gad MM, Sammour YM, Krishnaswamy A, Khatri J, et al. Characteristics and outcomes of patients with acute coronary syndrome who received percutaneous coronary intervention during snowy days. *J Invasive Cardiol*. 2021 Oct;33(10):e791-e796. PMID:34609326.

**Kadri AN, Hanzel G**, Elmariah S, Shannon F, Al-Azizi K, Boura J, et al, **[Abbas AE]**. Invasive versus echocardiographic gradients in degenerated surgical aortic valve prostheses: A multicenter study. *JTCVS Open*. 2021 Sep 1;7:51-60.

Kadri AN, Hanzel G, Mando R, Ali A, Shannon F, Vivacqua A, Almany S, Abbas A. The impact of flow-improvement after transcatheter aortic valve replacement on mortality in patients with low flow and severe aortic stenosis. *Journal of the American College of Cardiology*. 2021 May 11;77(18 Suppl 1):905.

**Kadri AN, Khodor S**, Ali A, Nusairat L, Mahmood A, **Nahas G**, et al, **[Dabbous S, Spears J, Jafri S, Werns S]**. National trends of tobacco, alcohol, and drug use in patients admitted with acute myocardial infarction. *Cardiovasc Revasc Med*. 2021 May;26: 26-31. doi:10.1016.

**Kadri AN**, Zawit M, Al-Adham R, Hader I, Nusairat L, Almahmoud MF, et al. Prevalence of venous thromboembolism in admissions and readmissions with and without syncope: A nationwide cohort study. *Eur Heart J Qual Care Clin Outcomes*. 2021 Jan 25;7(1):52-58. doi:10.1093/ehjqcco/qcz051. PMID:31562526.

Kaneko T, Makkar RR, Krishnaswami A, Hermiller J, Greenbaum A, Babaliaros V, et al, **[Abbas AE]**. Valve-in-surgical-valve with SAPIEN 3 for transcatheter aortic valve replacement based on Society of Thoracic Surgeons predicted risk of mortality. *Circ Cardiovasc Interv*. 2021 May;14(5) :e010288.

doi:10.1161/CIRCINTERVENTIONS.120.010288. Erratum in: *Circ Cardiovasc Interv.* 2021 Jul;14(7):e000083. PMID:34003666.

Khan JM, Babaliaros VC, Greenbaum AB, Spies C, Daniels D, Depta JP, et al, **[Hanzel G]**. Preventing coronary obstruction during transcatheter aortic valve replacement: Results from the multicenter international BASILICA registry. *JACC Cardiovasc Interv.* 2021 May 10;14(9):941-948. doi:10.1016/j.jcin.2021.02.035. PMID:33958168.

Kloner RA, Creech JL, Stone GW, O'Neill WW, Burkhoff D, **Spears JR**. Update on cardioprotective strategies for STEMI: Focus on supersaturated oxygen delivery. *JACC Basic Transl Sci.* 2021 Oct 27;6(12):1021-1033. doi:10.1016/j.jacbts.2021.07.011. PMID:35024508.

Lee SE, Sung JM, Andreini D, Al-Mallah MH, Budoff MJ, Cademartiri F, et al, **[Chinnaiyan K]**. Association between aortic valve calcification progression and coronary atherosclerotic plaque volume progression in the PARADIGM registry. *Radiology.* 2021 Jul;300(1):79-86. doi:10.1148/radiol.2021202630. PMID:33973837.

Madanat L, **Bloomington R, Shah K, Khalife A, Haines DE, Mehta NK**. Left atrial appendage occlusion device infection: Take it or leave it? *HeartRhythm Case Rep.* 2021 Aug 21;7(11):750-753. doi:10.1016/j.hrcr.2021.08.006. PMID:34820273.

Madanat L, Saleh M, **Maraskine M**, Halalau A, Bukovec F. Congestive heart failure 30-day readmission: Descriptive study of demographics, co-morbidities, heart failure knowledge, and self-care. *Cureus.* 2021 Oct 11;13(10):e18661. doi:10.7759/cureus.18661. PMID:34786247.

**Mando R**, Waheed M, **Michel A**, Karabon P, Halalau A. Prediabetes as a risk factor for major adverse cardiovascular events. *Ann Med.* 2021 Dec;53(1):2090-2098. doi:10.1080/07853890.2021.2000633. PMID:34761971.

**Mehta NK**, Doerr K, Skipper A, Rojas-Pena E, **Dixon S, Haines DE**. Current strategies to minimize postoperative hematoma formation in patients undergoing cardiac implantable electronic device implantation: A review. *Heart Rhythm.* 2021 Apr;18(4):641-650. doi:10.1016.

**Mehta NK**, Morgaenko K, **Haines D**, Rojas-Pena E, Heard B, Malhotra R, et al. Baseline incision characteristics and early scar maturation indices following cardiac device implantation. *J Arrhythm.* 2021 Jan 19;37(2):400-406. doi:10.1002/joa3.12464. PMID:33850582.

**Mehta NK**, Strickling J, Mark E, Swinehart S, Puthumana J, Lavie CJ, et al, **[Haines DE, Franklin BA]**. Beyond cardioversion, ablation and pharmacotherapies: Risk factors, lifestyle change and behavioral counseling strategies in the prevention and treatment of atrial fibrillation. *Prog Cardiovasc Dis.* 2021 May-Jun;66 :2-9. doi:10.1016/j.pcad.2021.05.002. PMID:34023354.

Meloche C, Seth M, Madder RD, Kurlander JE, Yaser J, **Chattahi J**, et al. Percutaneous coronary intervention in patients with a history of gastrointestinal bleeding (from the Blue Cross Blue Shield of Michigan Cardiovascular Consortium). *Am J Cardiol.* 2021 Sep 15;155: 9-15. doi:10.1016/j.amjcard.2021.06.013. PMID:34325106.

Meulmeester FL, Luo J, Martens LG, **Ashrafi N**, de Mutsert R, Mook-Kanamori DO, et al. Association of measures of body fat with serum alpha-tocopherol and its metabolites in middle-aged individuals. *Nutr Metab Cardiovasc Dis.* 2021 Jul 22;31(8):2407-2415. doi:10.1016/j.numecd.2021.05.001. PMID:34158242.

**Mohan J**, Yelamanchili VS, Zacharias SK. Acute coronary syndrome catheter interventions. 2021 Jul 25. Treasure Island, FL. StatPearls Publishing. PMID:30844157.

Mustafa SF, Zafar MR, Vira A, Halalau A, **Rabah M, Dixon S**, et al, **[Hanson I]**. In-hospital outcomes of patients with chronic kidney disease undergoing percutaneous coronary intervention for chronic

total occlusion: A systematic review and meta-analysis. *Coron Artery Dis.* 2021 Dec 1;32(8):681-688. doi:10.1097/MCA.0000000000001026. t. PMID:33587359.

**O'Connell TF, Bradley CJ, Abbas AE, Williamson BD, Rusia A, Tawney AM, et al, [Gaines R, Schott J, Haines DE].** Hydroxychloroquine/azithromycin therapy and QT prolongation in hospitalized patients with COVID-19. *JACC Clin Electrophysiol.* 2021 Jan;7(1):16-25. doi:10.1016.

**O'Connell TF, Trivax J, Franklin BA.** Omega-3 fatty acid supplementation in the primary and secondary prevention of cardiovascular events: New insights. *J Cardiopulm Rehabil Prev.* 2021 May 1;41(3):137-140. doi:10.1097/HCR.0000000000000608. PMID:33907071.

Patel J, **Franklin BA**, Pujary D, Kaur G, Deodhar A, Kharbanda S, et al. Effects of supervised exercise-based telerehabilitation on walk test performance and quality of life in patients in India with chronic disease: Combatting Covid-19. *Int J Telerehabil.* 2021 Jun 22;13(1):e6349. doi:10.5195/ijt.2021.6349. PMID:34386155.

Pathangey G, Fadadu PP, Hospodar AR, **Abbas AE.** Angiotensin-converting enzyme 2 and COVID-19: Patients, comorbidities, and therapies. *Am J Physiol Lung Cell Mol Physiol.* 2021 Mar 1;320(3):L301-L330. doi:10.1152.

Quindry JC, **Franklin BA.** Exercise preconditioning as a cardioprotective phenotype. *Am J Cardiol.* 2021 Jun 1;148:8-15. doi:10.1016/j.amjcard.2021.02.030. PMID:33675772.

**Safian RD.** Renal artery stenosis. *Prog Cardiovasc Dis.* 2021 Mar-Apr;65: 60-70. doi:10.1016/j.pcad.2021.03.003. PMID:33745915.

**Schott JP, Dixon SR, Goldstein JA.** Disparate impact of severe aortic and mitral regurgitation on left ventricular dilation. *Catheter Cardiovasc Interv.* 2021 May 1;97(6):1301-1308. doi:10.1002/ccd.29455. PMID:33471957.

**Shah K,** Chaudhary R, Turagam MK, Shah M, Patel B, Lanier G, et al. Active implantable cardioverter-defibrillators in continuous-flow left ventricular assist device recipients. *J Atr Fibrillation.* 2021 Jun 30;14(1):20200490. doi:10.4022/jafib.20200490. PMID:34950365.

**Shah K, Patel S, Hanson I, Williamson B, Kutinsky I, Dixon S, et al, [Haines DE, Mehta NK].** Navigating inferior vena cava filters in invasive cardiology procedures: A systematic review. *J Cardiovasc Electrophysiol.* 2021 May;32(5):1440-1448. doi:10.1111/jce.15010. PMID:33772931.

**Shah K,** Shah S, Turagam MK, Bhardwaj R, Contractor T, Mandapati R, et al. Early implantable cardioverter-defibrillator after acute myocardial infarction. *Am J Cardiol.* 2021 Aug 1;152:170-172. doi:10.1016/j.amjcard.2021.04.024. PMID:34103156.

Shah S, **Shah K,** Turagam MK, Sharma A, Natale A, Lakkireddy D, et al. Direct oral anticoagulants to treat left ventricular thrombus – A systematic review and meta-analysis: ELECTRAM investigators. *J Cardiovasc Electrophysiol.* 2021 Jun;32(6):1764-1771. doi:10.1111/jce.15016. PMID:33772939.

Sheikh MA, Kong X, Haymart B, Kaatz S, Krol G, Kozlowski J, et al, **[Almany S].** Comparison of temporary interruption with continuation of direct oral anticoagulants for low bleeding risk procedures. *Thromb Res.* 2021 Jul;203: 27-32. doi:10.1016/j.thromres.2021.04.006. PMID:33906063.

Sigua-Arce P, **Mando R,** Spencer L, Halalau A. Treatment of May-Thurner's syndrome and associated complications: A multicenter experience. *Int J Gen Med.* 2021 Aug 20;14: 4705-4710. doi:10.2147/IJGM.S325231. PMID:34447265.

Stafford PL, Harmon EK, Patel P, Walker M, Lin GM, Park SJ, et al, **[Mehta NK].** The influence of obesity on the association of obstructive sleep apnea and atrial fibrillation. *Sleep Med Res.* 2021 Jun;12(1):50-56. doi:10.17241/smr.2021.00857. PMID:34497733.

Stewart MT, **Haines DE**, Miklavčič D, Kos B, Kirchhof N, Barka N, et al. Safety and chronic lesion characterization of pulsed field ablation in a porcine model. *J Cardiovasc Electrophysiol*. 2021 Apr;32(4):958-969. doi:10.1111/jce.14980. PMID:33650743.

Sutton NR, Seth M, Madder RD, Sukul D, **Dixon SR**, Cannon LA, et al. Comparative safety of bioabsorbable polymer everolimus-eluting, durable polymer everolimus-eluting, and durable polymer zotarolimus-eluting stents in contemporary clinical practice. *Circ Cardiovasc Interv*. 2021 Mar;14(3):e009850. doi:10.1161/CIRCINTERVENTIONS.120.009850. PMID:33626898.

Swain DP, **Franklin BA**. Counterpoint: Theoretical and empirical basis for equating heart rate reserve with  $\dot{V}O_2$  reserve. *J Clin Exercise Physiol*. 2021 Sep 1;10(3):97-101.

**Tagami T**, Almahariq MF, **Balanescu DV**, Quinn TJ, Dilworth JT, **Franklin BA**, et al, **[Bilollikar A]**. Usefulness of coronary computed tomographic angiography to evaluate coronary artery disease in radiotherapy-treated breast cancer survivors. *Am J Cardiol*. 2021 Mar 15;143:14-20. doi:10.1016.

Takagi H, Leipsic JA, Indraratna P, Gulsin G, Khasanova E, Tzimas G, et al, **[Chinnaiyan K]**. Association of tube voltage with plaque composition on coronary ct angiography: Results from paradigm registry. *JACC Cardiovasc Imaging*. 2021 Aug 11:S1936-878X (21)00564-7. doi:10.1016/j.jcmg.2021.07.011. PMID:34419398.

Ternacle J, **Abbas AE**, Pibarot P. Prosthesis-patient mismatch after transcatheter aortic valve replacement: Has it become obsolete? *JACC Cardiovasc Interv*. 2021 May 10;14(9):977-980. doi:10.1016/j.jcin.2021.03.039. PMID:33958171.

Ternacle J, Guimaraes L, Vincent F, Côté N, Côté M, Lachance D, et al, **[Abbas AE]**. Reclassification of prosthesis-patient mismatch after transcatheter aortic valve replacement using predicted vs. measured indexed effective orifice area. *Eur Heart J Cardiovasc Imaging*. 2021 Jan 1;22(1):11-20. doi:10.1093/ehjci/jeaa235. PMID:32995865.

Ternacle J, Pibarot P, Herrmann HC, Kodali S, Leipsic J, Blanke P, et al, **[Abbas AE]**. Prosthesis-patient mismatch after aortic valve replacement in the PARTNER 2 trial and registry. *JACC Cardiovasc Interv*. 2021 Jul 12;14(13):1466-1477. doi:10.1016/j.jcin.2021.03.069. PMID:3423857.

Tram J, Pressman A, Chen NW, Berger DA, Miller J, Welch RD, et al, **[Hanson I]**. Percutaneous mechanical circulatory support and survival in patients resuscitated from out of Hospital cardiac arrest: A study from the CARES surveillance group. *Resuscitation*. 2021 Jan;158:122-129. doi:10.1016.

van den Hoogen IJ, van Rosendaal AR, Lin FY, Gianni U, Andreini D, Al-Mallah MH, et al, **[Chinnaiyan K]**. Measurement of compensatory arterial remodelling over time with serial coronary computed tomography angiography and 3D metrics. *Eur Heart J Cardiovasc Imaging*. 2021 Sep 1: jeab138. doi:10.1093/ehjci/jeab138. PMID:34468717.

van Rosendaal AR, Lin FY, van den Hoogen IJ, Ma X, Gianni U, Al Hussein Alawamih O, et al, **[Chinnaiyan K, Raff GL]**. Progression of whole-heart atherosclerosis by coronary CT and major adverse cardiovascular events. *J Cardiovasc Comput Tomogr*. 2021 Jan 1;S1934-5925(20)30505-0. doi:10.1016.

van Rosendaal AR, van den Hoogen IJ, Gianni U, Ma X, Tantawy SW, Bax AM, et al, **[Chinnaiyan K]**. Association of statin treatment with progression of coronary atherosclerotic plaque composition. *JAMA Cardiol*. 2021 Nov 1;6(11):1257-1266. doi:10.1001/jamacardio.2021.3055. PMID:34406326.

Vanood A, Owen R, **Maraskine M**, Schreiber A, Pokharel R, Cohen L. Collapsing FSGS with concurrent class 2 and 3 lupus nephritis: A case report and review of the literature. *Case Rep Nephrol Dial*. 2021 Jan 28;11(1):16-25. doi:10.1159/000510840. PMID:33708796.

Willis BL, Radford NB, Barlow CE, Leonard D, **Franklin BA**, DeFina LF. Divergent association of high levels of physical activity with cardiac versus noncardiac arterial calcification. *Am Heart J*. 2021 Mar;233:10-13. doi:10.1016.

Won KB, Heo R, Park HB, Lee BK, Lin FY, Hadamitzky M, et al, **[Chinnaiyan K]**. Atherogenic index of plasma and the risk of rapid progression of coronary atherosclerosis beyond traditional risk factors. *Atherosclerosis*. 2021 May;324:46-51. doi:10.1016/j.atherosclerosis.2021.03.009. PMID:33813155.

Yoon YE, Baskaran L, Lee BC, Pandey MK, Goebel B, Lee SE, et al, **[Chinnaiyan K]**. Differential progression of coronary atherosclerosis according to plaque composition: A cluster analysis of PARADIGM registry data. *Sci Rep*. 2021 Aug 24;11(1):17121. doi:10.1038/s41598-021-96616-w. PMID:34429500.

Yu L, Halalau A, Dalal B, **Abbas AE**, Ivascu F, Amin M, et al. Machine learning methods to predict mechanical ventilation and mortality in patients with COVID-19. *PLoS One*. 2021 Apr 1;16(4):e0249285. doi:10.1371/journal.pone.0249285. PMID:33793600.

### **Abstracts with Associated Research Publications:**

Armstrong J, Foglesong A, Halalau A, **Mando R**. Acute venous thromboembolism in patients with elevated body mass index: Can we prescribe direct oral anticoagulants? *Circulation*. 2021;144(Suppl 1):A10854-A.

Azzalini L, Seth M, Sukul D, Arora D, **Chattahi J**, Osman A, et al. TCT-220 impact of left ventricular end-diastolic pressure on the outcomes of patients undergoing percutaneous coronary intervention. *J Amer Coll Cardiol* 2021 Nov 9;78(19 Suppl S):B90.

Bernardo M, **Lynch S, Abu-Mafouz M**. An unusual approach to iatrogenic aorto-coronary dissection: The utility of percutaneous coronary intervention. *J Am Coll Cardiol* 2021 May;77(18 Suppl 1):2419.

**Foglesong A, Armstrong J, Mando R**, Halalau A. DOAC use for stroke prevention in patients with atrial fibrillation and elevated body mass index. *Circulation*. 2021 Nov 16;144(Suppl 1):A8899.

Garg J, **Shah KB**, Shah S, Turagam MK, Natale A, Lakkireddy DR. Left atrial appendage occlusion with new Watchman-FLX device. *Heart Rhythm*. 2021 Aug 1;18(Suppl 8):S337.

Garg J, **Shah KB**, Turagam MK, Bhardwaj R, Contractor T, Mandapati R, et al. Implantable cardioverter defibrillator in patients with spontaneous coronary artery dissection presenting with cardiac arrest. *Heart Rhythm*. 2021 Aug 1;18(8):S167.

Garg J, **Shah KB**, Turagam MK, Natale A, Lakkireddy DR. HIS-bundle pacing following prosthetic aortic valve replacement. *Heart Rhythm*. 2021 Aug 1;18(8):S114-5.

Garg J, Shah S, **Shah KB**, Turagam MK, Natale A, Lakkireddy DR. Left atrial appendage occlusion in patients with intracranial hemorrhage. *Heart Rhythm*. 2021 Aug 1;18(8):S251.

Gulsin G, Tzimas G, Takagi H, Eddy R, Blanke P, Park P, et al, **[Chinnaiyan K]**. Relationship between coronary ct angiography–derived fractional flow reserve and clinical outcomes in patients with and without diabetes. *J Am Coll Cardiol* 2021 Nov 9;78(19S):B164.

Hasnie A, **Haines D**. The shocking truth: A case of persistent atrial fibrillation cardioversion with domestic electrical shock. *J Gen Intern Med* 2021 Jul 1;36(Suppl 1):S358-S358.

Hazy AJ, Saadat S, Krauss DJ, Dilworth JT, Stevens CW, **Dixon S**, et al, **[Safian RD, Lee KC]**. Clinical outcomes in patients undergoing coronary brachytherapy for restenosis of coronary vessels previously treated with drug eluting stents. *Int J Radiat Oncol Biol Phys* 2021 Nov 1;111(3):e41.

Khalili H, **Abbas A**, Pilgrim T, Okuno T, Elmariah S, Al-Azizi K, et al, [**Hanzel G, Mando R**]. Comparisons of echocardiographic and invasive aortic gradient assessment in aortic stenosis, degenerated surgical bioprosthesis, native and valve-in-valve TAVR: A Multicenter study. *J Am Coll Cardiol* 2021 May 11;77(18 S1):917.

**Khanal S**, Jewulski J, Dahal K. Platypnea orthodeoxia syndrome with patent foramen ovale and positional right to left shunt despite normal right sided pressures. *J Am Coll Cardiol* 2021 May;77(18S):2477.

**Khodor S**, Bernardo M, Khodor M, **Spears J**. A novel treatment in acute anterior myocardial infarction: Supersaturated oxygen therapy. *J Am Coll Cardiol* 2021 May;77(18 S1):2408.

**Khodor S**, Elder Z, Khodor M, **Elder M**. Successful angioplasty and stenting of a thrombosed superficial femoral artery secondary to Celtac® metallic vascular closure device embolization. *J Am Coll Cardiol* 2021 May;77(18 S1):2507.

Lak H, Sammour Y, Chahine J, Chawla S, **Kadri A**, Popovic Z, et al. Impact of new-onset left bundle branch block on clinical and echocardiographic outcomes after TAVR with SAPIEN-3 valve. *Eur Heart J* 2021 Oct;42(S1):ehab724-2179.

Lowenstern A, Takagi H, Ng N, Rymer J, Koweek L, Douglas P, et al, [**Chinnaiyan K**]. The influence of obesity on coronary artery disease and clinical outcomes in the ADVANCE registry. *J Am Coll Cardiol* 2021 Nov 9;78(19S):B124-5.

**Lynch S**, AlSahli A, **Elder M**. Taking the scenic route: A peripheral intervention complicated by a persistent sciatic artery. *J Am Coll Cardiol* 2021 May;77(18):2916.

Madanat L, **Shah K, Haines D, Mehta N**. High burden of sensing changes in periprocedural TAVR patients with pre-existing CIEDs presents a unique challenge. *Circulation* 2021 Nov 16;144(S1):A13691.

**Mando R**, Michel A, Waheed M, Karabon P, Halalau A. Is prediabetes too late: Normalization of hemoglobin A1C in prediabetes is not associated with improved outcomes. *JACC* 2021 May 11;77(18 Suppl 1):1603.

Michel A, **Mando R**, Waheed MA, Halalau A, Karabon P. Prediabetes associated with an increase in major adverse cardiovascular events. *JACC*. 2021, May 11;77(18 Suppl 2):14.

**O'Connell TF, Palomo A**, Tariq R, **Safian RD, Gallagher M, Chinnaiyan KM**. Long-term outcomes of CT-derived fractional flow reserve in the emergency department. *Circulation*. 2021 Nov 16;144(S1):A13587.

Rymer J, Takagi H, Lowenstern A, Rabbat M, Fairbairn T, **Chinnaiyan K**, et al. Anatomic and functional discordance among patients with nonobstructive coronary disease. *J Amer Coll Cardiol* 2021 Nov 9;78(19S):B36-7.

**Shah K**, Shah S, Turagam M, Bhardwaj R, Contractor T, Mandapati R, et al. Efficacy and safety of protamine after catheter ablation of atrial fibrillation: Systematic review and meta-analysis. *Circulation*. 2021 Nov 16;144(S1):A10572.

**Shah K**, Shah S, Turagam MK, Bhardwaj R, Contractor T, Mandapati R, et al. Adenosine induced dormant pulmonary vein reconnection predicts recurrent atrial fibrillation after pulmonary vein isolation: Systematic review and meta-analysis. *Circulation*. 2021 Nov 16;144(S1):A10794.

**Shah K**, Shah S, Turagam MK, Bhardwaj R, Contractor T, Mandapati R, et al. Pace-capture versus no pace-capture guided ablation for atrial fibrillation: Systematic review and meta-analysis. *Circulation*. 2021 Nov 16;144(S1):A10807.

**Shah KB**, Mehta N, Kutinsky IB, Stewart MT, Verma A, Calkins H et al, **[Haines DE]**. Pulsed field ablation trains reduce tissue impedance in patients undergoing pulmonary vein isolation. Heart Rhythm 2021 Aug 18;(Suppl 8):S10.

**Shah KB**, Saado J, Kerwin M, Mazimba S, Kwon Y, Mangrum M et al, **[Haines DE, Mehta N]**. New onset atrial fibrillation in patient with non cardiac critical care illness - a systematic review and meta-analysis. Heart Rhythm 2021 Aug 18;(8 Supp);S358-359.

Shah S, **Shah K**, Turagam MK, Bhardwaj R, Contractor T, Mandapati R, et al. Atrial fibrillation catheter ablation reduces the risk of dementia: A systematic review and meta-analysis. Circulation. 2021 Nov 16;144(S1):A10820.

Shah S, **Shah KB**, Turagam MK, Bhardwaj R, Contractor T, Mandapati R, et al. Outcomes of biventricular pacing versus conventional pacing (DDD mode) in patients with a normal left ventricular ejection fraction. Circulation. 2021 Nov 16;144(S1):A10836.

Shah S, **Shah KB**, Turagam MK, Bhardwaj R, Contractor T, Mandapati R, et al. Omega-3 polyunsaturated fatty acids reduces post-operative atrial fibrillation in patients undergoing cardiac surgery. Heart Rhythm. 2021 Aug 1;18(8S):S248-9.

Shah S, **Shah KB**, Turagam MK, Bhardwaj R, Contractor T, Mandapati R, et al. Outcomes of subcutaneous implantable cardioverter-defibrillator in dialysis patients. Heart Rhythm. 2021 Aug 1;18(8S):S12.

Swapna G, Ivan H, **Mazen S**. Profound patent foramen ovale shunting unmasked by an episode of atrial fibrillation. 2021;77(18):2395. [https://doi.org/10.1016/S0735-1097\(21\)03750-5](https://doi.org/10.1016/S0735-1097(21)03750-5)

Takagi H, Fairbairn T, Akasaka T, Norgaard B, Berman D, **Raff G**, et al. Trans-stenotic pressure gradient as derived from CT improves patient management: ADVANCE registry. Eur Heart J 2021 Oct;42(S1):ehab724-0196.

Verma A Boersma LVA, **Haines DE**, Marchlinski FE, Calkins H, Sanders P et al. Pulsed field ablation and heat generation: Electrode-tissue temperature analysis from the pulsed AF trial. Heart Rhythm 2021 Aug 18;(8S);S70.

**Vira A, Hanson I**. Rapidly progressing purulent pericarditis caused by Neisseria meningitidis infection. J Am Coll Cardiol 2021;77(18 Suppl 1):1954.

**Vira A, Mustafa S, Silverman A**. Acquired Gerbode defect and severe aortic regurgitation following surgical aortic valve replacement treated with percutaneous approach. J Am Coll Cardiol 2021;77(18 Suppl 1):2375.

### **Invited Research Presentations:**

**Abbas A, Bloomingdale R, Bowers TR, Brennan M, Bukovec F, Chinnaiyan K**, et al, **[Dixon SR, Gallagher MJ, Hain JZ, Hanson ID, Kutinsky I, Mehta N, Trivax JE]**. Practical Update in Cardiology 2021. 2021 Nov 20, Troy, MI. Beaumont CME;2021.

**Aggarwal S, Bloomingdale R, Bradshaw J**, Brown OW, Lau W, **Vivacqua A**. New techniques for the minimally invasive treatment of aortic disease. Beaumont Health On Demand Series. Dec 17, 2021. Virtual.

**Berman A**. Advances in the treatment of heart failure. Beaumont Practical and Progressive Updates in Primary Care, 2021 Apr 15-May 23. Virtual.

**Dixon S**. REDEFINE: A prospective, randomized evaluation of the ControlRad system to reduce radiation exposure during cardiac catheterization procedures. TCT 2021, Nov 4-6, 2021, Orlando, FL.



Foglesong A, Kara Balla A, **Bilollikar AN**. A broken heart: A case of stress induced cardiomyopathy precipitated by community acquired pneumonia. American College of Physicians-Michigan, 2021 Michigan Chapter Residents/Medical Student Day. 2021 May 7. Virtual.

**Gallagher MJ**. "CT Firs" in the evaluation of chest pain: What you need to know about cardiac CT/FFRCT. Medical Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. Sep 22, 2021.

**Non-Peer Reviewed Research Publications:**

**Mehta N**, Mandanat L. Cardiac device pocket hematomas: The feared top risk factor for device infections. DocWire News. 2021 Aug 16. <https://www.docwirenews.com/cardiology/columns/cardiac-device-pocket-hematomas-the-feared-top-risk-factor-for-device-infections/>

# CLINICAL ETHICS

## Peer Reviewed Articles:

**Brummett A.** Affirming the existence and legitimacy of secular bioethical consensus, and rejecting Engelhardt's alternative: A reply to Nick Colgrove and Kelly Kate Evans. HEC Forum. 2021 Jun 22. doi:10.1007/s10730-021-09452-w. PMID:34156607.

**Brummett AL.** Defending, improving, expanding, and applying a moral-metaphysical proceduralism for secular clinical ethics. Am J Bioeth. 2021 Jul;21(7):W6-W9. doi:10.1080/15265161.2021.1926593. PMID:34152902.

**Brummett AL, James EJ.** Non-Roman Catholic physicians should be permitted to write prescriptions for birth control in Roman Catholic institutions. J Clin Ethics. 2021 Fall;32(3):265-270. PMID:34548435.

**Brummett AL.** Putting the asymmetry debate in its place. Am J Bioeth. 2021 Aug;21(8):68-69. doi:10.1080/15265161.2021.1940357. PMID:34313569.

**Brummett AL.** Secular clinical ethicists should not be neutral toward all religious beliefs: An argument for a moral-metaphysical proceduralism. Am J Bioeth. 2021 Jun;21(6):5-16. doi:10.1080.

**Brummett A, Crutchfield P.** Two internal critiques for theists who oppose moral enhancement on a process virtue basis. Bioethics. 2021 Dec 12. doi:10.1111/bioe.12985. PMID:34897749.

**Brummett A.** What is the appropriate role of reason in secular clinical ethics? An argument for a compatibilist view of public reason. Med Health Care Philos. 2021 Jun;24(2):281-290. doi:10.1007/s11019-021-10004-9. PMID:33475924.

Navin MC, **Brummett AL, Wasserman JA.** Three kinds of decision-making capacity for refusing medical interventions. Am J Bioeth. 2021 Aug 3:1-11. doi:10.1080/15265161.2021.1941423. PMID:34344267.

Reis-Dennis S, **Brummett AL.** Are conscientious objectors morally obligated to refer? J Med Ethics. 2021 Jul 7. doi:10.1136.

## Invited Research Presentation:

**Brummett A, Hickey K.** Behavioral Health On Demand: Religion and the clinical encounter. Beaumont Behavioral Health on Demand. Nov 9, 2021. Virtual.

# COLON AND RECTAL SURGERY

## Peer Reviewed Articles:

Al-Turaihi H, Blears EE, Sugumar K, **Deshmukh G**. A novel modification of the endorectal advancement flap for complex anal fistulas: Surgical technique and outcomes. *Int Surg*. 2021;105:720-8. <https://doi.org/10.9738/INTSURG-D-21-00008.1>

## Abstracts with Associated Research Presentations:

**Friedman RM**, Wasvary J, **Ziegler MA**, **Wasvary H**. Adopting National Accreditation Program for Rectal Cancer guidelines improves compliance with pretreatment rectal cancer care standards. *Dis Colon Rectum*. 2021 May;64(5):e109-e364. doi:10.1097/DCR.0000000000002029

Kawak S, **Bauman J**, **Wasvary H**. Port site recurrence after a robotic-assisted oncologic colorectal resection. *Dis Colon Rectum*. 2021 May;64(5):e109-364. doi:10.1097/DCR.0000000000002029  
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## Invited Research Presentations:

Dreyer Z, **Bergeron S**, Hilli R, **Wasvary H**. Multidisciplinary management of rectal cancer affecting access to comprehensive care and overall cancer-free survival. The Oakland University Graduate Student Research Conference, 2021 May, Rochester Hills, MI.

Ezeokoli E, **Wasvary H**. Cost analysis of laparoscopic vs robotic surgery in colon and rectal cancer: A retrospective analysis of efficacy in surgical methodology innovation at a single institution. Oakland University Graduate Student Research Conference, 2021 May, Rochester Hills, MI and The 6th Annual Robert J. Lucas Surgical Society Research Symposium, 2021 Mar 9. Virtual.

**Friedman RM**, Wasvary J, **Ziegler M**, **Wasvary H**. Adopting the National Accreditation Program for Rectal Cancer (NAPRC) guidelines improves compliance with pretreatment rectal cancer care standards. The 49th Annual Beaumont Residents and Fellows Research Forum, 2021 May. Virtual.

**Hill A**, **Wasvary H**, **Ziegler M**. Association between preoperative HbA1C and surgical site infection in colorectal surgery. The Michigan Society of Colon and Rectal Surgeons Annual Meeting, 2021 Oct, Detroit, MI.

Menning AZ, Al-Hadidi A, Studzinski DM, Callahan R, Mangla J, **Shellnut J**, et al, [**Wasvary H**]. Effect of preoperative narcotic use and enhanced recovery protocols on length of stay in patients undergoing elective laparoscopic segmental colectomy: Analysis of the NSQIP dataset. The Michigan Society of Colon and Rectal **Surgeons** Annual Meeting, 2021 Oct, Detroit, MI.

## Non-Peer Reviewed Research Publications:

Ekkel E, **Hain J**. Supralevator abscess presenting with pneumoarthrosis and retroperitoneal. Research Square. 2022 <https://doi.org/10.21203/rs.3.rs-438018/v1>

# DIAGNOSTIC RADIOLOGY AND MOLECULAR IMAGING

## Peer Reviewed Articles:

Aoun HD, Littrup PJ, Nahab B, **Rizk M**, Prus M, Samantray J, et al. Percutaneous cryoablation of adrenal metastases: Technical feasibility and safety. *Abdom Radiol (NY)*. 2021 Jun;46(6):2805-2813. doi:10.1007/s00261-020-02848-1. PMID:33543315.

Balanescu DV, Kado HS, Mertens A, **Chand R, Savin M**, McNally V, et al. Mechanical thrombectomy in pulmonary embolism associated with COVID-19: A "Clotography" gallery. *Vasc Endovascular Surg*. 2021 Nov;55(8):903-906. doi:10.1177/15385744211037600. PMID:34355600.

Carrillo M, **Waldrop M, Malay N**. Primary glioblastoma. *RSNA Case Collection*. 2021 May 21, doi:10.1148/cases.20224085.

Castillo E, Nair G, Turner-Lawrence D, Myziuk N, Emerson S, **Al-Katib S**, et al. Quantifying pulmonary perfusion from noncontrast computed tomography. *Med Phys*. 2021 Apr;48(4):1804-1814. doi:10.1002/mp.14792. PMID:33608933.

**Chapman J, Al-Katib S, Palamara E**. Small bowel diverticulitis - spectrum of CT findings and review of the literature. *Clin Imaging*. 2021 Oct;78:240-246. doi:10.1016/j.clinimag.2021.05.004. PMID:34098519.

**Colvin R, Walker D**, Hafron J, Seifman B, Nandalur S, Gangwish D, et al. Which measurement method should be used for prostate volume for PI-RADS? A comparison of ellipsoid and segmentation methods. *Clin Imaging*. 2021 Dec;80:454-458. doi:10.1016/j.clinimag.2021.09.003. PMID:34562834.

Dekhou A, Rehman R, Parzen JS, Quinn TJ, Zhang PL, Rontal M, et al, **[Noujaim S]**. Primary parotid tumor thrombosis: Immunohistologic features and awareness of metastatic potential. *Cureus*. 2021 Jul 4;13(7):e16174. doi:10.7759/cureus.16174. PMID:34367782.

Guglielmo FF, Wells ML, Bruining DH, Strate LL, Huete Á, Gupta A, et al, **[Sokhandon F]**. Gastrointestinal bleeding at CT angiography and CT enterography: Imaging atlas and glossary of terms. *Radiographics*. 2021 Oct;41(6):1632-1656. doi:10.1148/rg.2021210043. PMID:34597220.

**Heuvelhorst KL, Diener T**, Manzoor H, Khadra M, Musa F, **Jafri SK**. Cerebral venous sinus thrombosis without thrombotic thrombocytopenic syndrome in a male patient after Ad26. COV2. S vaccination. *American Journal of Medical Case Reports*. 2021;9(12):719-21.

Hussain A, Han E, **Colvin R, Al-Katib S**. Anomalous circumrenal inferior vena cava associated with horseshoe kidney. *Cureus*. 2021 Oct 15;13(10):e18797. doi:10.7759/cureus.18797. PMID:34804661.

**Kelsch RD, Nolan DA, Krishnan A**. Unusual case of biotin-thiamine responsive encephalopathy without basal ganglia involvement. *Pediatr Radiol*. 2021 Mar;51(3):485-488. doi:10.1007/s00247-020-04829-4. PMID:33000323.

**Kelsch RD, Silbergleit R, Krishnan A**. Neuroimaging in the first 6 weeks of the COVID-19 pandemic in an 8-hospital campus: Observations and patterns in the brain, head and neck, and spine. *J Comput Assist Tomogr*. 2021 Jul-Aug 01;45(4):592-599. doi:10.1097/RCT.0000000000001179. PMID:34176883.

**Kirsch AK, Allison SM, Kilanowski SA**. Nitrous oxide abuse-induced subacute combined degeneration: Classic neuroimaging findings on MRI. *Neurographics*. 2021 Mar 1;11(2):72-4.

Lindan CE, Mankad K, Ram D, Kociolek LK, Silvera VM, Boddaert N, et al, **[Kirsch A, Krishnan A]**. Neuroimaging manifestations in children with SARS-CoV-2 infection: A multinational, multicentre collaborative study. *Lancet Child Adolesc Health*. 2021 Mar;5(3):167-177. doi:10.1016/S2352-4642(20)30362-X. PMID:33338439.

Nair GB, **Al-Katib S**, Podolsky RH, Quinn T, Stevens C, Castillo E. Dynamic lung compliance imaging from 4DCT-derived volume change estimation. *Phys Med Biol*. 2021 Nov 3;66(21). doi:10.1088/1361-6560/ac29ce. PMID:34560677.

Nair GB, **Al-Katib S**, Turner-Lawrence D, Khasawneh M, Myziuk N, Guerrero TM, et al. A prospective study to validate pulmonary blood mass changes on non-contrast 4DCT in pulmonary embolism patients. *Clin Imaging*. 2021 Oct;78:179-183. doi:10.1016/j.clinimag.2021.02.023. PMID:33839544.

Nair GB, Galban CJ, **Al-Katib S**, Podolsky RH, van den Berge M, Stevens C, et al. An assessment of the correlation between robust CT-derived ventilation and pulmonary function test in a cohort with no respiratory symptoms. *Br J Radiol*. 2021 Feb 1;94(1118):20201218. doi:10.1259/bjr.20201218. PMID:33320729.

**Nandalur KR, Colvin R, Walker D**, Nandalur SR, Seifman B, Gangwish D, et al. Benign prostate hyperplasia as a potential protective factor against prostate cancer: Insights from a magnetic resonance imaging study of compositional characteristics. *Prostate*. 2021 Oct;81(14):1097-1104. doi:10.1002/pros.24207. PMID:34375453.

**Pai VR, Rebner M**. How to minimize patient anxiety from screening mammography. *J Breast Imaging*. 2021 Sep;3(5):603-6.

**Pakray A**, Hayden N, **Sokhandon F, Olsen J**. Detection and intervention of clinically masquerading inferior mesenteric artery AVMS. *Case Rep Radiol*. 2021 May 28;2021:8854806. doi:10.1155/2021/8854806. PMID:34136301.

**Ricard DR, Wehrman JL**. Imaging pediatric patients during the COVID-19 pandemic. *Radiol Technol*. 2021 Nov;93(2):217-219. PMID:34728581.

Sargent T, **Kolderman N**, Nair GB, Jankowski M, **Al-Katib S**. Risk factors for pneumothorax development following CT-guided core lung nodule biopsy. *J Bronchology Interv Pulmonol*. 2021 Oct 14. doi:10.1097/LBR.0000000000000816. PMID:34654044.

Shah NG, Wible BC, Paulisin JA, **Zaki M**, Lamparello P, Sista A, et al. Management of inferior vena cava thrombosis with the FlowTrier and ClotTrier systems. *J Vasc Surg Venous Lymphat Disord*. 2021 May;9(3):615-620. doi:10.1016.

Shaheen AA, Hader I, **Aqel Z**. Novel presentation of terminal ileitis associated with secukinumab therapy. *Case Rep Gastrointest Med*. 2021 Sep 28;2021: 5213876. doi:10.1155/2021/5213876. PMID:34621550.

Siddiqui M, **Abuelroos D**, Qu L, Jackson RE, Berger DA. Emergency department urosepsis and abdominal imaging. *Cureus*. 2021 Apr 29;13(4):e14752. doi:10.7759/cureus.14752. PMID:34084678.

Travers B, Jones S, Bastani A, Opsommer M, **Beydoun A**, Karabon P, et al. Assessing geriatric patients with head injury in the emergency department using the novel level III trauma protocol. *Am J Emerg Med*. 2021 Jul;45:149-153. doi:10.1016.

**Waldrop M, Jones C, Malay N, Saenz R, Schwartz E**. Diffuse large b-cell lymphoma. *AJNR Case of the Month*. *Am J Neuroradiol*. 2021 Apr: <http://ajnr.org/content/com/2021apr>

## **Abstracts with Associated Research Presentations:**

**Savin J, Sharma J, Piziali D, Robbins JM, Ghaith G, Savin M.** Jejunal diverticula, an unusual cause of upper gastrointestinal bleeding: Case report and literature review. J Vasc Interv Radiol 2021 May;32(5):e14.

## **Invited Research Presentations:**

**Abuelroos D, Krishnan A, Al-Katib S.** E1166. The ABCs of GPA: A primer on the imaging manifestations of granulomatosis with polyangiitis. American Roentgen Ray Society (ARRS), 2021 Apr 18-22, 2021. Virtual. <https://apps.rrs.org/AbstractsAMopen/Main/Abstract/E1166>

**Abuelroos D, Nandalur K, Kolderman, N.** Body imaging apprenticeship: An innovative elective for senior radiology residents. Society for Advanced Body Imaging (SABI), 2021 Oct 12, 2021, Washington, DC. <https://www.advancedbodyimaging.org/Meetings/2021-Meeting#51342850-tuesday-october-12-2021>

**Aravapalli R, Ali R, Martinez Z, Legacy M.** Metastatic colon adenocarcinoma to the ovary in a young woman: Differential diagnosis. American Osteopathic College of Radiology, 2021 May 3-7. Virtual.

**Krishnan A, Pouzar A, Wang AM, Lima CCV.** Pineal abnormalities in the pediatric population – Review of anatomy, histology, immunochemistry, pathology and imaging. Radiological Society of North America (RSNA), 2021 Nov 28-Dec 2, 2021, Chicago, IL.

Lazar N, Niculescu O, **Lima CCV**, Lima NA. Gallstone ileus complicating rectal cancer: A red herring cause of abdominal pain. American College of Physicians Michigan Chapter (ACP), 2021, Oct 14-17, 2021.

**Martinez Z, Kamienecki K, Widmaier P, Legacy M, Aravapalli, R.** Are we waiting too long? A case series and discussion reviewing the ACS breast screening guidelines in biopsy-proven breast cancer patients at a community hospital. American Osteopathic College of Radiology, 2021 May 3-7. Virtual.

**Martinez Z**, Rosado M, Serna T, **Kamienecki K**, Schwartz E, Mainster H. A rare case of jejunal perforation due to post-transplant lymphoproliferative disease twenty-seven years after liver transplant: Review of imaging with pathologic correlation. American Osteopathic College of Radiology, 2021 May 3-7. Virtual.

**McKnight T.** Bone scan basics. American Osteopathic College of Radiology, 2021 May 3-7. Virtual.

**Saenz R.** Breaking the abdomen badly. American Osteopathic College of Radiology, 2021 May 3-7. Virtual.

**Saenz R.** Differentials in gastrointestinal imaging, part 1, Top 3 differentials in radiology. American Osteopathic College of Radiology, 2021 May 4. Virtual.

**Saenz R.** Differentials in gastrointestinal imaging, part 2, Top 3 differentials in radiology. American Osteopathic College of Radiology, 2021 May 4. Virtual.

**Saenz R.** Differentials in gastrointestinal imaging, part 3, Top 3 differentials in radiology. American Osteopathic College of Radiology, 2021 May 5. Virtual.

**Saenz R.** Emergent CT cases: Don't let the sun go down on these! American Osteopathic College of Radiology, 2021 May 3-7. Virtual.

**Saenz R.** GI cases you can't miss. American Osteopathic College of Radiology, 2021 May 3-7. Virtual.

**Saenz R.** GU cases you need to know. American Osteopathic College of Radiology, 2021 May 3-7. Virtual.

**Waldrop M, Jones C, Malay N, Saenz R,** Schwartz E. Hoarding, unsanitary conditions and improbable diagnosis. Beaumont Hospital, Farmington Hills, 2021 May 6. Virtual.

Wilseck Z, **Copelan AZ, Wilseck JM,** Srinivasan A, Pandey A, Gemmete JJ, et al. E-085 Interventional and diagnostic neuroradiology fellowship education in the COVID-19 era. 107th Annual Radiological Society of North America (RSNA), 2021 Nov 28-Dec 2, 2021, Chicago, IL.

**Yadavalli S, Szymanski J.** E2171. Evaluation of hand injuries: Pulleys, ligaments and tendons – a pictorial essay. American Roentgen Ray Society (ARRS), 2021 Apr 18-22, 2021. Virtual.  
<https://apps.rrs.org/AbstractsAMopen/Main/Abstract/E2171>

**Non Peer Reviewed Research Publications:**

Concepcion RS, Hafron JM, Hamilton J, **Handel JD.** Upper tract transitional cell carcinoma: Diagnostic and therapeutic considerations. Urol Times. 2021 Feb 19.  
<https://www.urologytimes.com/view/upper-tract-transitional-cell-carcinoma-diagnostic-and-therapeutic-considerations>

# EMERGENCY MEDICINE

## Peer Reviewed Articles:

Abbas M, **Moussa M**, **Akel H**. Type I hypersensitivity reaction. 2021 Jul 21. Treasure Island, FL. StatPearls Publishing. PMID:32809396.

Abbas M, **Verville J**, **Mroue K**. Resolution of bronchoconstriction with positive airway pressure after intravenous adenosine. *Am J Emerg Med*. 2021 Jun;44:481:e1-481.e2. doi:10.1016.

Alexandre K, Hassan O, **Hebden J**, Barnwell JM. Cocaine induced biliary tree obstruction in a middle-aged male. *Cureus*. 2021 Dec 16;13(12):e20458. doi:10.7759/cureus.20458. PMID:35047288.

**Bahl A**, **Diloreto E**, **Jankowski D**, Hijazi M, Chen NW. Comparison of 2 midline catheter devices with differing antithrombogenic mechanisms for catheter-related thrombosis: A randomized clinical trial. *JAMA Netw Open*. 2021 Oct 1;4(10):e2127836. doi:10.1001/jamanetworkopen.2021.27836. PMID:34613402.

**Bahl A**, **Gibson SM**, **Jankowski D**, Chen NW. Short peripheral intravenous catheter securement with cyanoacrylate glue compared to conventional dressing: A randomized controlled trial. *J Vasc Access*. 2021 Jun 11:11297298211024037. doi:10.1177/11297298211024037. PMID:34112019.

**Bahl A**, **Gibson SM**. Catheter length in-vein impacts ultrasound-guided peripheral intravenous catheter survival. *J Emerg Nurs*. 2021 Nov;47(6):843-845.e2. doi:10.1016/j.jen.2021.06.001. PMID:34294454.

**Bahl A**, **Johnson S**, Alsbrooks K, Mares A, Gala S, Hoerauf K. Defining difficult intravenous access (DIVA): A systematic review. *J Vasc Access*. 2021 Nov 17:11297298211059648. doi:10.1177/11297298211059648. PMID:34789023.

**Bahl A**, **Johnson S**, **Altwill M**, **Brackney A**, **Xiao J**, **Price J**, et al, [**Shotkin P**]. Left ventricular ejection fraction assessment by emergency physician-performed bedside echocardiography: A prospective comparative evaluation of multiple modalities. *J Emerg Med*. 2021 Dec;61(6):711-719. doi:10.1016/j.jemermed.2021.09.009. PMID:34654586.

**Bahl A**, **Johnson S**, Chen NW. Timing of corticosteroids impacts mortality in hospitalized COVID-19 patients. *Intern Emerg Med*. 2021 Sep;16(6):1593-1603. doi:10.1007/s11739-021-02655-6. PMID:33547620.

**Bahl A**, **Johnson S**, Maine G, Garcia MH, Nimmagadda S, Qu, et al. Vaccination reduces need for emergency care in breakthrough COVID-19 infections: A multicenter cohort study. *Lancet Reg Health Am*. 2021 Dec;4:100065. doi:10.1016/j.lana.2021.100065. PMID:34522911.

**Bahl A**, **Johnson S**, Mielke N, Karabon P. Early recognition of peripheral intravenous catheter failure using serial ultrasonographic assessments. *PLoS One*. 2021 Jun 16;16(6):e0253243. doi:10.1371/journal.pone.0253243. PMID:34133459.

Beaudoin FL, Kessler RC, Hwang I, Lee S, Sampson NA, An X, et al, [**Swor RA**]. Pain after a motor vehicle crash: The role of socio-demographics, crash characteristics and peri-traumatic stress symptoms. *Eur J Pain*. 2021 May;25(5):1119-1136. doi:10.1002/ejp.1733. PMID:33458880.

**Berger DA**, Chen NW, Miller JB, Welch RD, Reynolds JC, Pribble JM, et al, [**Swor RA**]. Substantial variation exists in post-cardiac arrest outcomes across Michigan hospitals. *Resuscitation*. 2021 Feb;159:97-104. doi:10.1016.



Cakmak AS, Alday EAP, Da Poian G, Rad AB, Metzler TJ, Neylan TC et al, **[Swor RA]**. Classification and prediction of post-trauma outcomes related to PTSD using circadian rhythm changes measured via wrist-worn research watch in a large longitudinal cohort. *IEEE J Biomed Health Inform.* 2021 Aug;25(8):2866-2876. doi:10.1109/JBHI.2021.3053909. PMID:33481725.

Campos A, Ernest EV, Cash RE, Rivard MK, Panchal AR, Clemency BM, et al, **[Swor RA]**. The association of death notification and related training with burnout among emergency medical services professionals. *Prehosp Emerg Care.* 2021 Jul-Aug;25(4):539-548. doi:10.1080.

Cash RE, **Swor RA**, Samuels-Kalow M, Eisenbrey D, Kaimal AJ, Camargo CA Jr. Frequency and severity of prehospital obstetric events encountered by emergency medical services in the United States. *BMC Pregnancy Childbirth.* 2021 Sep 24;21(1):655. doi:10.1186/s12884-021-04129-1. PMID:34560847.

Castillo E, Nair G, **Turner-Lawrence D**, Myziuk N, Emerson S, Al-Katib S, et al. Quantifying pulmonary perfusion from noncontrast computed tomography. *Med Phys.* 2021 Apr;48(4):1804-1814. doi:10.1002/mp.14792. PMID:33608933.

Cowan B, **Brackney A**, Barremkala M. Ultrasound in medical education: Can students teach themselves? *Med Sci Educ.* 2021 Aug 4;31(5):1663-1668. doi:10.1007/s40670-021-01357-0. PMID:34603838.

Coyne CJ, Reyes-Gibby CC, Durham DD, Abar B, Adler D, **Bastani A**, et al, **[Swor R]**. Cancer pain management in the emergency department: A multicenter prospective observational trial of the Comprehensive Oncologic Emergencies Research Network (CONCERN). *Support Care Cancer.* 2021 Aug;29(8):4543-4553. doi:10.1007/s00520-021-05987-3. PMID:33483789.

Edwards JM, Roy S, **Galla SL**, Tomcho JC, Bearss NR, Waigi EW, et al. FPR-1 (Formyl Peptide Receptor-1) activation promotes spontaneous, premature hypertension in Dahl salt-sensitive rats. *Hypertension.* 2021 Apr;77(4):1191-1202. doi:10.1161/HYPERTENSIONAHA.120.16237. PMID:33641367.

**Fisher R**, Bernett MJ, Pasternoster R, Karabon P, Devlin W, **Swor R**. Utility of abnormal head computed tomography in predicting outcome in out-of-hospital cardiac arrest victims. *Ther Hypothermia Temp Manag.* 2021 Sep;11(3):164-169. doi:10.1089.

Goldberg EM, Hasegawa K, Lawrence A, Kline JA, Camargo CA Jr, **[Turner-Lawrence D]**. Viral coinfection is associated with improved outcomes in emergency department patients with SARS-CoV-2. *West J Emerg Med.* 2021 Oct 26;22(6):1262-1269. doi:10.5811/westjem.2021.8.53590. PMID:34787549.

Gunther KH, **Smith J**, Boura J, Sherman A, Siegel D. The use of bedside ultrasound for gallstone disease care within a community-based emergency department: A confirmation bias. *Spartan Med Res J.* 2021 Apr 13;6(1):18182. doi:10.51894/001c.18182. PMID:33869999.

Gupta A, **Menoch M**. What's in an eye? *Pediatr Rev.* 2021 Sep;42(Suppl 2):127-131. doi:10.1542/pir.2018-0166. PMID:34470892.

**Gurkha D**, Cashen K, **Patek P**, Lelak K, Levasseur K. Coronavirus-19 multisystem inflammatory syndrome in children (MIS-C): A pediatric simulation case for residents, fellows, and advanced practice providers. *MedEdPORTAL.* 2021 Aug 16;17:11180. doi:10.15766/mep\_2374-8265.11180. PMID:34466658.

Hamam MS, Klausner HA, France J, Tang A, **Swor RA**, Paxton JH, et al. Prehospital tibial intraosseous drug administration is associated with reduced survival following out of hospital cardiac arrest: A study for the CARES Surveillance Group. *Resuscitation.* 2021 Oct;167: 261-266. doi:10.1016/j.resuscitation.2021.06.016. PMID:34237357.

**Hamera JA**, Bryant NB, Shievitz MS, **Berger DA**. Systemic thrombolysis for refractory cardiac arrest due to presumed myocardial infarction. *Am J Emerg Med*. 2021 Feb;40: 226.e3-226.e5. doi:10.1016.

Harnett NG, van Rooij SJH, Ely TD, Lebois LAM, Murty VP, Jovanovic T et al, **[Swor RA]**. Prognostic neuroimaging biomarkers of trauma-related psychopathology: Resting-state fMRI shortly after trauma predicts future PTSD and depression symptoms in the AURORA study. *Neuropsychopharmacology*. 2021 Jun;46(7):1263-1271. doi:10.1038/s41386-020-00946-8. PMID:33479509.

**Jeong YS, Menoch M**. I am blue: A toddler's Raynaud's phenomenon. *BMJ Case Rep*. 2021 Jul 27;14(7):e243848. doi:10.1136/bcr-2021-243848. PMID:34315746.

**Keene S, Fisher R, Cameron-Comasco L**. Geriatric emergency medicine fellowship journal club: Frailty. *J Geriatr Emerg Med*. 2021;2(11):article 6.  
<https://institutionalrepository.aah.org/jgem/vol2/iss11/6/>

Kline JA, Camargo CA Jr, Courtney DM, Kabrhel C, Nordenholz KE, Aufderheide T, et al, **[Turner-Lawrence D]**. Clinical prediction rule for SARS-CoV-2 infection from 116 U.S. emergency departments 2-22-2021. *PLoS One*. 2021 Mar 10;16(3):e0248438. doi:10.1371/journal.pone.0248438. PMID:33690722.

Korley FK, Durkalski-Mauldin V, Yeatts SD, Schulman K, Davenport RD, SIREN-C3PO Investigators, et al, **[Bastani A, Marsack P, Daut N, Clark CL, People B, Grace H]**. Early convalescent plasma for high-risk outpatients with Covid-19. *N Engl J Med*. 2021 Nov 18;385(21):1951-1960. doi:10.1056/NEJMoa2103784. 2021 Aug 18. PMID:34407339.

Kou M, Baghdassarian A, Rose JA, **Levasseur K**, Roskind CG, Vu T, et al. Milestone achievements in a national sample of pediatric emergency medicine fellows: Impact of primary residency training. *AEM Educ Train*. 2021 Feb 8;5(3):e10575. doi:10.1002/aet2.10575. PMID:34124521.

**Krishnaprasadh D, Levasseur K**. Mastocytosis. *Pediatr Rev*. 2021 Aug;42(8):468-470. doi:10.1542.

Ledvina A, **Otero R, Hamilton J, Clark C, Bastani A, Ziadeh J**, et al, **[Swor R]**. Preliminary report of drive-through screening COVID-19 screening process in a large suburban community. *Int J Emerg Med*. 2021 Mar 24;14(1):17. doi:10.1186/s12245-021-00340-1. PMID:33761864.

Lee DM, **Berger DA, Wloszczynski PA**, Karabon P, Qu L, **Burla MJ**. Assessing the impact of resuscitation residents on the treatment of cardiopulmonary resuscitation patients. *Am J Emerg Med*. 2021 Mar;41: 46-50. doi:10.1016.

Lobo JJ, McLean SA, Tungate AS, Peak DA, **Swor RA**, Rathlev NK, Hendry PL, et al. Polygenic risk scoring to assess genetic overlap and protective factors influencing posttraumatic stress, depression, and chronic pain after motor vehicle collision trauma. *Transl Psychiatry*. 2021 Jun 29;11(1):359. doi:10.1038/s41398-021-01486-5. PMID:34226500.

McLean SA, Ressler K, Koenen KC, Neylan T, Germine L, Jovanovic T, et al, **[Swor R]**. Correction: The AURORA Study: A longitudinal, multimodal library of brain biology and function after traumatic stress exposure. *Mol Psychiatry*. 2021 Jul;26(7):3658. doi:10.1038/s41380-020-00897-y.

Mielke N, **Johnson S**, Karabon P, **Bahl A**. A prospective sonographic evaluation of peripheral intravenous catheter associated thrombophlebitis. *J Vasc Access*. 2021 Apr 16:11297298211009019. doi:10.1177/11297298211009019. PMID:33860710.

Nair GB, Al-Katib S, **Turner-Lawrence D**, Khasawneh M, Myziuk N, Guerrero TM, et al. A prospective study to validate pulmonary blood mass changes on non-contrast 4DCT in pulmonary embolism patients. *Clin Imaging*. 2021 Oct;78:179-183. doi:10.1016/j.clinimag.2021.02.023. PMID:33839544.

Natesan S, **Todd B**, Hsu RS, Ren RK, Clark R, Jara-Almonta G, et al. Novel tool for assessing the quality of feedback in the emergency room (FEED-ER). *AEM Educ Train*. 2021 Aug 1;5(4):e10698. doi:10.1002/aet2.10698. PMID:34859168.

**Newson JM**, Sefa N, **Berger DA**. Identifying acute myocardial infarction in ventricular-paced patients: The effectiveness of modified Sgarbossa criteria. *Am J Emerg Med*. 2021 Jul;45: 680.e1-680.e4. doi:10.1016.

Partiali B, Oska S, **Turner-Lawrence D**. An analysis of sex diversity in ACGME emergency medicine fellowships. *Am J Emerg Med*. 2021 Aug;46:720-721. doi:10.1016.

Peacock WF, Kuehl D, Bazarian J, Singer AJ, Cannon C, Rafique Z, et al, **[Clark C]**. Defining acute traumatic encephalopathy: Methods of the HEAD Injury Serum Markers and Multi-Modalities for Assessing Response to Trauma (HeadSMART II) study. *Front Neurol*. 2021 Dec 8;12: 733712. doi:10.3389/fneur.2021.733712. PMID:34956041.

Siddiqui M, Abuelroos D, Qu L, **Jackson RE, Berger DA**. Emergency department urosepsis and abdominal imaging. *Cureus*. 2021 Apr 29;13(4):e14752. doi:10.7759/cureus.14752. PMID:34084678.

Steuber ER, Seligowski AV, Roeckner AR, Reda M, Lebois LAM, van Rooij SJH, et al, **[Swor RA]**. Thalamic volume and fear extinction interact to predict acute posttraumatic stress severity. *J Psychiatr Res*. 2021 Sep;141:325-332. doi:10.1016/j.jpsychires.2021.07.023. PMID:34304036.

**Swor RA**, Chen NW, Song J, Paxton JH, **Berger DA**, Miller JB, et al. Hospital length of stay, do not resuscitate orders, and survival for post-cardiac arrest patients in Michigan: A study for the CARES Surveillance Group. *Resuscitation*. 2021 Aug;165:119-126. doi:10.1016/j.resuscitation.2021.05.039. PMID:34166745.

**Todd B**, Shinthia N, Nierenberg L, **Mansour L, Miller M, Otero R**. Impact of electronic medical record alerts on emergency physician workflow and medical management. *J Emerg Med*. 2021 Mar;60(3):390-395. doi:10.1016.

**Todd BR**, Nelson LN. The impact of medical scribes on emergency physician diagnostic testing and diagnosis charting. *Diagnosis (Berl)*. 2021 Oct 25. doi:10.1515/dx-2021-0099. PMID:34689455.

Touriel R, Dunne R, **Swor R**, Kowalenko T. A pilot study: Emergency medical services-related violence in the out-of-hospital setting in southeast Michigan. *J Emerg Med*. 2021 Apr;60(4):554-559. doi:10.1016.

Tram J, **Pressman A**, Chen NW, **Berger DA**, Miller J, Welch RD, et al, **[Swor R]**. Percutaneous mechanical circulatory support and survival in patients resuscitated from out of hospital cardiac arrest: A study from the CARES surveillance group. *Resuscitation*. 2021 Jan;158:122-129. doi:10.1016.

Travers B, **Jones S, Bastani A, Opsommer M, Beydoun A**, Karabon P, et al, **[Donaldson D]**. Assessing geriatric patients with head injury in the emergency department using the novel level III trauma protocol. *Am J Emerg Med*. 2021 Jul;45:149-153. doi:10.1016.

### **Abstracts with Associated Research Publications:**

Beyer M, Littman H, Stokes-Buzzelli S, Miller J, **Otero R**, Klausner H. Comparison of risk factors and outcomes for blunt trauma patients on anticoagulants or antiplatelet agents evaluated in urban and suburban settings. *Ann Emerg Med*. 2021 Oct;78(Suppl 4):S12.

**Bukhsh M**, Thyagarajan R, **Todd B**, Chen NW, Qu L, Swaminathan L. An emergency department-based response to the hepatitis A outbreak in Michigan: Improving hepatitis A vaccination rates in high-risk populations. *Ann Emerg Med*. 2021 Oct;78(Suppl 4):S106.

Cash R, **Swor RA**, Samuels-Kalow M, **Eisenbrey D**, Camargo Jr C. Types of prehospital obstetric emergencies encountered by US emergency medical services personnel. *Prehosp Emer Care*. 2021;25(1):143.

**DeVries A, Todd BR**. Evaluating quality improvement survey on emergency department sign-out smart phrase. *Acad Emerg Med*. 2021 May;28(Suppl 1):S347.

**Fisher R, Cameron-Comasco L**. The PEAGE study: Patient experience after geriatric evaluation. *Ann Emerg Med*. 2021 Oct;78(Suppl 4):S67-68.

Ford E, Karabon P, Mann C, Goble M, Fosse G, **Swor RA**. Characterizing impact of state legislation on cardiac arrest outcomes at K-12 schools. *Prehosp Emerg Care*. 2021;25(1):158-159.

**Jeong YS, Shah S**, Akula S, Novotny NM, **Menoch M**. Shock index pediatric adjusted score vs pediatric trauma score in the emergency department: So many scores, so little time. *Acad Emerg Med*. 2021 May;28(Suppl 1):S338-339.

**Keene S, Cameron-Comasco L**. Geriatric emergency medicine assessment in the emergency department results in yearly savings of \$3 million. *Acad Emerg Med*. 2021 May;28(Suppl 1):S250.

**Krishnaprasadh D, Menoch M, Samberg M**, Fawaz L, Grant S. Pediatric constipation evaluation in the emergency department practice patterns and trends amongst provider types. *Acad Emerg Med*. 2021 May;28(Suppl 1):S70.

**Mroue K, Kenaan I, Downing N**, Chen N. Effectiveness of drive-through evaluations at identifying low risk patients during a pandemic. *Acad Emerg Med*. 2021 May;28(Suppl 1):S296.

**Muradian M, Todd BR, Turner-Lawrence D**. The impact of virtual interviews on behavior and perspectives of emergency medicine residency applicants. *Acad Emerg Med*. 2021 May;28(Suppl 1):S367.

Nair GB, Al-Katib S, **Turner-Lawrence D**, Ionescu F, Galban CJ, Van den Berge M, et al. A comparative study of ventilation perfusion mismatch derived from non-contrast CT scans in hospitalized COVID-19 patients. *Am J Respir Crit Care Med* 2021;203:A4467.

**Patek P, Owda D, Levasseur K, Menoch M**. Emergency visit trends for pediatric anaphylaxis in Southeast Michigan. *Ann Emerg Med*. 2021 Oct;78(Suppl 4):S120-121.

**Rykowski N, Berger D**, Paxton J, Klausner HA, Smith GC, Chen NW et al, [**Swor RA**]. Impact of missing data on measurement of cardiac arrest outcomes according to race. *Academic Emergency Medicine* 2021;28(Suppl 1):S265.

**Saleem S, Jary J, Levasseur K**. Specific concussion curriculum: Does it improve resident comfort, knowledge, and in-training examination scores? A pilot study. *Acad Emerg Med*. 2021 May;28(Suppl 1):S386.

Scheels W, Phelan M, Treat R, **Muradian M**, Kopatich D. Point-of-care ultrasound cardiac activity definition. *Acad Emerg Med*. 2021 May;28(Suppl. 1):S356.

**Swor RA**, Paxton J, **Berger D**, Miller JB, Brett C, Chen NW. Correlation in hospital survival following out-of-hospital cardiac arrest with variation in post-arrest inpatient intervention rates in Michigan. *Circulation*, 2021 Nov 16;144(Suppl 2):A13607.

**Turner-Lawrence D, Berman J, Shah P**. Virtual etiquette: A closer look at emergency medicine didactics in the age of COVID. *Ann Emerg Med*. 2021 May;78(Suppl 4):S142.

Vanood A, Sharrak A, **Jung D**, Rao A, Aggarwal N. Gaps in dementia training at the medical student level: Slipping through the cracks. (4229) *Neurology* 2021 Apr 13;96 (Suppl 15): 4229.

### **Invited Research Presentations:**

Gratson M. Management of opioid use disorder and a path to success. Medical Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. Oct 20, 2021.

**McParlane J.** Peer support: Why connection with your colleagues matters. Beaumont Health Symposium for Primary Care Medicine 2021, Nov 4-5, 2021. Virtual.

**McPeak C.** Human trafficking on demand: Screening, assessment & resources. Beaumont Health CME on Demand, Oct 27,2021. Virtual.

**Sessa B.** Pearls and pitfalls of urgent care. Beaumont Health Symposium for Primary Care Medicine 2021, Nov 5-6, 2021. Virtual.

### **Multimedia:**

**Newson J, James H, Shepherd B.** The generalist: Anywhere emergency medicine: How to respond to an emergency no matter where you are. Right on Prime. Burbank, CA: EM:RAP, 2021 Jun. <https://www.emrap.org/episode/rop2021june/thegeneralist>

### **Non-Peer Reviewed Research Publications:**

**Bahl A, Johnson S, Mielke N, Karabon P.** Identifying predictors of peripheral intravenous catheter failure using a novel combination of clinical and ultrasonographic assessments. ResearchSquare. Preprint. Mar 8, 2021. <https://doi.org/10.21203/rs.3.rs-283800/v1>

**Saleem S, Jary J, Levasseur K.** Specific concussion curriculum: Does it improve residents' comfort, knowledge, and in-training examination scores? A pilot study. medRxiv 2021. doi:doi.org/10.1101/2021.04.17.21255666

**Walters BL, Drogowski M.** Going off the deep end - the life and controversies of Henry Heimlich, MD. Mich Emerg Med News Views. 2021 Sep-Oct;41(5):10-11. <https://www.mcep.org/wp-content/uploads/2021/10/Sept-Oct-Final.pdf>

# FAMILY MEDICINE

## Peer Reviewed Articles:

Alaga KC, **Haddad J**. Lifestyle intervention is superior to metformin in prevention of microvascular complications of diabetes in women, but socioeconomic barriers may lead to use of combination. *Clinical Research in Practice* 2021;7(2):9.

**Al-Nabolsi, M, Alhusein D, Marchewka T, Kucera M, Daher A, Venida R, et al, [Beydoun A, Surati R, Deland A, Sebastian M]**. SARS-CoV-2 epidemiology, prevention, risk factors, evaluation, diagnosis, management and vaccines. *Osteopathic Family Physician* 2021 Sep 1;13(5):31-7. doi:10.33181/13050

Caurdy-Bess L, Damiano S, Fresch A, Begle M, **Yedavally-Yellayi S, Eraqi HA**, et al. When we know better, we do better: Maintaining and retrieving advance directive documents in the electronic health record. *Collaborative Case Management*. 2021 Jul 80:5-11.

**Clark-Sienkiewicz SM**, Caño A, **Zeman LL**, Lumley MA, Gothe N. Development of a multicomponent intervention to initiate health behavior change in primary care: The Kickstart Health Program. *J Clin Psychol Med Settings*. 2021 Dec;28(4):694-705. doi:10.1007/s10880-020-09755-z. PMID:33398641.

DeJonckheere M, McKee MM, Guetterman TC, Schleicher LS, **Mulhem E**, Panzer K, et al, **[Bradley K]**. Implementation of a hearing loss screening intervention in primary care. *Ann Fam Med*. 2021 Sep-Oct;19(5):388-395. doi:10.1370/afm.2695. PMID:34546945.

**Fonseka G, Bognanno E, Rollinger K**. 14-year-old girl • history of bullying • lack of social support • multiple linear scars on breasts • Dx? *J Fam Pract*. 2021 Mar;70(2):93-95. doi:10.12788/jfp.0159. PMID:33760900.

Francis M, **Hamame M, Nasrallah M, Nesbitt A, Meza JP**. Dextromethorphan-quinidine is helpful for pseudobulbar affect disorder in stroke patients. *Clinical Research in Practice* 2021 Nov 5;7(2):19.

Ghorayeb JH, **Theriault MD**. Biopsychosocial exercise prescription for weight control: A frontline perspective. 2021;114(7):438–41. doi:10.14423/SMJ.0000000000001270. PMID:34215898.

Jarrett JB, Griesbach S, Theobald M, Tiemstra JD, **Lick D**. Nonclinical time for family medicine residency faculty: National survey results. *PRiMER*. 2021 Dec 1;5: 45. doi:10.22454/PRiMER.2021.338005. PMID:35178507.

**Kucera M, Marchewka T, Craib A**. Does losing 5-7% of prediabetic body weight from a diabetes prevention program decrease cardiovascular risks? *Spartan Med Res J*. 2021 Aug 30;6(2):27627. doi:10.51894/001c.27627. PMID:34532627.

**Lick D, Khemraj R**. Is simple reaction time a good sideline test for diagnosing concussions? *Evidence-Based Practice*. 2021 Dec;24(12):16-17 doi:10.1097/EBP.0000000000001337.

Manigault EM, Donohue L, Moore E, **Abuaita Y**. A moral dilemma: The use of zinc in patients hospitalized with COVID pneumonia. *Clin. Research Practice* 2021 Aug 6;7(1):eP2729. <https://doi.org/10.22237/crp/1622160720>

McLeod MR, Vasudevan A, **Warnick S Jr**, Wolfson JA. Screening for food insecurity in the primary care setting: Type of visit matters. *J Gen Intern Med*. 2021 Dec;36(12):3907-3909. doi:10.1007/s11606-020-06474-x. PMID:33469763.

**Meza JP.** From the editor: Bridging the gap from clinical research done on populations to the care of an individual patient. *Clinical Research Practice* 2021 Oct 13;7(1):eP3009.

<https://doi.org/10.22237/crp/1633973391>

**Meza JP.** From the editor: Clinical decision science: Experience can be shared: Can it be taught? *Clinical Research Practice* 2021 May 28;7(1):eP2728. <https://doi.org/10.22237/crp/1622160480>

**Mulhem E, Oleszkowicz A, Lick D.** 3219 hospitalised patients with COVID-19 in Southeast Michigan: A retrospective case cohort study. *BMJ Open*. 2021 Apr 7;11(4):e042042. doi:10.1136.

Samer A-Ilyan, **Ilyan S.** The biopsychosocial model and clinical decision science in the age of Black Lives Matter: A clinical reflection. *Clinical Research Practice* 2021 May 28;7(1):eP2464.

<https://doi.org/10.22237/crp/1622160300>

**Warnick SJ Jr, Mehdi L, Kowalkowski J.** Wait-there's evidence for that? Integrative medicine treatments for major depressive disorder. *Int J Psychiatry Med*. 2021 Sep;56(5):334-343. doi:10.1177/00912174211046353. PMID:34521233.

**Yaekle S, Ali H, Baker C.** Informed consent: There is insufficient evidence to recommend bremelanotide for hypoactive sexual desire disorder. *Clinical Research Practice* 2021 Aug 23;7(1):eP2862. doi:10.22237/crp/1622161200.

#### **Book Chapter or Full Book Publications:**

**Warnick SJ Jr,** Van Harrison R, Parikh SV, et al. Unipolar Depression. Ann Arbor, MI: Michigan Medicine University of Michigan, 2021 Feb. <https://www.ncbi.nlm.nih.gov/books/NBK572297/>

#### **Invited Research Presentations:**

**Boekelheide L.** The breastfeeding journey: Essentials for primary care providers. Beaumont Health Symposium for Primary Care Medicine 2021, Nov 5-6, 2021. Virtual.

**Gruber A, Rosbolt J.** Care of the military patient. Beaumont Practical and Progressive Updates in Primary Care Medicine, 2021 Apr 15-May 23. Virtual.

**Jones D.** Behavioral Health on Demand: Suicide assessment in 2021: Current methods and emerging models. Beaumont Behavioral Health on Demand. 2021 Jan 12. Virtual.

**Kowalkowski JD.** Mental health impact on heart health. Presented as part of the Stellantis Virtual Heart Health Series – Mental Health Panel, 2021 Apr. Virtual.

**Kowalkowski JD.** Understanding adverse childhood experiences: Trauma-informed care in healthcare settings. Beaumont Behavioral Health On Demand. Feb 9, 2021. Virtual.

**Kowalkowski J,** Warnick SJ, **Dykstra D.** Protege effect: Behavioral health-procedural skills in a family medicine residency. The 42nd Annual Forum for Behavioral Science in Family Medicine, 2021 Sep 22-24. Virtual.

**Kucera M, Marchewka T, Craib A.** Does losing 5-7% of a prediabetic's body weight while completing the Diabetes Prevention Program decrease ASCVD risk? Society of Teachers of Family Medicine, May 3, 2021. Virtual.

**Shammami A, Aneese N, Loush M.** Treatment of pain and recognizing and treating addiction. The Michigan State University School of Osteopathic Medicine Pain Management and Opioid Awareness Symposium, 2021 Mar 3. Virtual.

**Warnick SJ.** Behavioral health on demand: Bipolar disorder update: Basic pharmacologic treatment in primary care. Beaumont. Oct 12, 2021. Virtual.

**Warnick SJ, Kowalkowski J.** Help! My patient has anxiety and I only have 20 minutes: Brief interventions and medication options. The Beaumont Symposium for Primary Care Medicine, 2021 Nov 5-6. Virtual.

**Yedavally-Yellayi S, Kinaya N, Lucky C.** End of life / palliative care. Beaumont Practical and Progressive Updates in Primary Care Medicine, 2021 Apr 15-May 23. Virtual.

**Yedavally-Yellayi S.** Palliative care for the primary care provider. Beaumont Health Symposium for Primary Care Medicine 2021, Nov 5-6, 2021. Virtual.

### **Multimedia:**

Gilpin NE, **Shajahan A.** The COVID vaccines rollout episode. Beaumont HouseCall Podcast. Michigan: Beaumont Health, 2021. <https://www.youtube.com/watch?v=08lsukg6Cbl>.

### **Non Peer Reviewed Research Publications:**

Burch J, **Mulhem E.** For adults with chronic obstructive pulmonary disease (COPD), what are the effects of telerehabilitation? Cochrane Clinical Answers 2021 Aug 12. <https://doi.org/10.1002/cca.3610>

Burch J, **Mulhem E.** For people with cystic fibrosis, how do biotechnology-derived and porcine pancreatic enzyme replacement therapy (PERT) compare? Cochrane Clinical Answers. 2021 Sept 2. <https://doi.org/10.1002/cca.3298>

**Mulhem E.** How does oral amoxicillin compare with placebo for young children with World Health Organization (WHO)-defined non-severe pneumonia and wheeze? Cochrane Clinical Answers 2021 May 12. <https://doi.org/10.1002/cca.3619>

Gilpin,NE, **Shajahan A.** The COVID-19 vaccine updates episode. Beaumont HouseCall Podcast. Michigan: Beaumont Health, 2021. [https://www.youtube.com/watch?v=8AdV\\_0YM2S0](https://www.youtube.com/watch?v=8AdV_0YM2S0)

**McClowry RJ.** Primary care for LGBT patients. Family Medicine Residency Curriculum Resource. 2021. <https://www.fammedrcr.com/completed-curriculum-list/>

**Shajahan A,** Freij B. The children & COVID-19 vaccines episode. Michigan: Beaumont Health, 2021. <https://www.youtube.com/watch?v=2LrLuj2Yfs0>

**Shajahan A,** Ross H. Special episode: Implicit bias & racism. Beaumont HouseCall Podcast. Michigan: Beaumont Health, 2021. <https://www.youtube.com/watch?v=ZN8FboeSLbo>

**Shajahan A,** Skinner R. The medical misinformation episode. Beaumont HouseCall Podcast. Michigan: Beaumont Health, 2021. <https://www.youtube.com/watch?v=JiOxMxGIAHE>

**Shajahan A,** Wharton K. The labor & delivery episode: Making shared decisions episode. Michigan: Beaumont Health, 2021. <https://www.youtube.com/watch?v=Ck8JnfBVlcs>

**Shajahan A,** Wharton K. The labor & delivery special episode: COVID-19 vaccines & pregnancy. Michigan: Beaumont Health, 2021. <https://www.youtube.com/watch?v=C2y-ahf5530>

**Shammami A, Kline E,** Weber Z. Comprehensive, interprofessional substance use disorder (SUD) treatment initiative in a family medicine residency program. In ASHP Podcasts. American Society of Health-System Pharmacists, 2021 Jul 29. <https://www.ashp.org/professional-development/ashp-podcasts/therapeutic-thursdays/2021/comprehensive-interprofessional-substance-use-disorder-sud?loginreturnUrl=SSOCheckOnly>



# INTEGRATIVE MEDICINE

## Invited Research Presentation:

**Anderson M.** The role of the gut microbiome in overall health. Beaumont Health Symposium for Primary Care Medicine, 2021 Nov 5-6. Virtual.

# **SUBSPECIALTY DIVISION OF INTERNAL MEDICINE**

**Allergy and Immunology**

**Dermatology**

**Endocrinology**

**Gastroenterology and Hepatology**

**General Internal Medicine**

**Geriatrics**

**Hematology/Oncology**

**Infectious Diseases**

**Nephrology**

**Neurology**

**Nutrition and Preventive Medicine**

**Pulmonary and Critical Care Medicine**

# ALLERGY AND IMMUNOLOGY

## Peer Reviewed Articles:

Boyanton BL Jr, Boamah H, **Lauter CB**. Native vs prosthetic valve histoplasma capsulatum infective endocarditis: A case report and systemic literature review comparing patient presentation, treatment modalities, clinical outcomes, and diagnostic laboratory testing. *Open Forum Infect Dis*. 2021 Jul 14;8(8):ofab360. doi:10.1093/ofid/ofab360. PMID:34381842.

Chiari EF, Weiss W, **Simon MR**, Kiessig ST, Pulse M, Brown SC, et al. Oral immunotherapy with human secretory immunoglobulin A improves survival in the hamster model of *Clostridioides difficile* infection. *J Infect Dis*. 2021 Oct 28;224(8):1394-1397. doi:10.1093/infdis/jiab087. PMID:33588433.

Maraj DC, **Barak-Norris R**. A case of longstanding idiopathic Pernio/Chilblain disease. *Cureus*. 2021 Sep 3;13(9):e17674. doi:10.7759/cureus.17674. PMID:34650852.

Maraj DC, **Barak-Norris R**, Dankha M. A rare case of benzocaine-induced methemoglobinemia. *Cureus*. 2021 Nov 4;13(11):e19259. doi:10.7759/cureus.19259. PMID:34881122.

Yee D, Skrynski A, **Dass K**. 25-year-old woman • abdominal pain • urticarial rash • recent influenza immunization • Dx? *J Fam Pract*. 2021 Dec;70(10):513-514. doi:10.12788/jfp.0321. PMID:35119992.

## Invited Research Presentation:

**Dass K**. Pediatric allergic reaction. *Beaumont Practical and Progressive Updates in Primary Care Medicine*, 2021 Apr 15-May 23. Virtual.

# DERMATOLOGY

## Peer Reviewed Articles:

**Globerson J**, Yee D, Olsen S, **Kopitzki B**. Heterotopic salivary gland tissue encountered during Mohs surgery. *Dermatol Surg*. 2021 May 1;47(5):712-714. doi:10.1097/DSS.0000000000002434. PMID:33625151.

**Globerson JA**, **Nessel T**, Basehore BM, Saleeby ER. Novel treatment of in-transit metastatic melanoma with shave excision, electrodesiccation and curettage, and topical imiquimod 5% cream. *J Drugs Dermatol*. 2021 May 1;20(5):555-557. doi:10.36849/JDD.5675. PMID:33938702.

Hamp A, Anderson J, Bal A, **Hansen N**. Acquired localised lipoatrophy secondary to transgluteal drainage. *BMJ Case Report*. 2021;14(7):e242964. PMID:34290016.

Kohli I, Kastner S, Thomas M, **Nahhas AF**, Braunberger TL, Mohammad TF et al. Quantitative measurement of skin surface oiliness and shine using differential polarized images. *Arch Dermatol Res*. 2021 Mar;313(2):71-77. doi:10.1007/s00403-020-02070-5.

**Nahhas AF**, Scales AT, Pfeifle J, Stephenson SR. An unusual presentation of cutaneous metastatic lobular breast carcinoma. *Cutis*. 2021 Jan;107(1):e23-e26. doi:10.12788/cutis.0162. PMID:33651872.

Purohit E, **Karimipour D**, Madder RD. Multiple cutaneous cancers in an interventional cardiologist: Predominance in unprotected skin nearest the radiation source. *Cardiovasc Revasc Med*. 2021 Jan 29;S1553-8389(21)00080-4. doi:10.1016/j.carrev.2021.01.029. PMID:33549498.

Su R, **Abrou A**, Abowd M. A rare case of cutaneous mucoepidermoid carcinoma of the eyelid: A case report and literature review. *Case Rep Ophthalmol*. 2021 May 10;12(2):380-385. doi:10.1159/000514947. PMID:34054488.

Utz SE, Nartker N, Goncharuk V, **Singer C**. Livedo racemosa from lubricious polymer coating embolism after endovascular procedure. *J Cutan Pathol*. 2021 Jun;48(6):811-812. doi:10.1111/cup.13914.

**Valk B**, **Bender B**. Pityriasis rosea associated with COVID-19 vaccination: A common rash following administration of a novel vaccine. *Cutis*. 2021 Dec;108(6):317-318. doi:10.12788/cutis.0411. PMID:35167784.

## Invited Research Presentations:

**Corwin K**, Dewey J, **Mahon M**. Diffuse sarcoidosis. Beaumont Hospital, Farmington Hills, MI, 2021 May 6. Virtual.

**Hansen K**, Jacobs D, **Lipkin H**. Widespread morphea development following pembrolizumab therapy. Beaumont Hospital, Farmington Hills, MI, 2021 May 6. Virtual.

**Ivanov N**, **Sikorski L**, **Mahon M**. Erythema multiforme major: Targetoid mucocutaneous eruption in the setting of COVID-19 viral infection and chemotherapeutic treatment for bladder cancer. Beaumont Hospital, Farmington Hills, MI, 2021 May 6. Virtual.

**Nahhas A**, Kurn H, Pfeifle J, **Seiger E**, Stephenson SR. An irregular-appearing verrucous, vascular growth presenting on the leg of a 26-year old female. Beaumont Hospital, Farmington Hills, MI, 2021 May 6. Virtual.

**Valk B, Silva V, Dawson M, Olsen S.** Cutaneous syncytial myoepithelioma: A rare dermal tumor and clinicopathologic mimicker. Beaumont Hospital, Farmington Hills, MI, 2021 May 6. Virtual.

**Valk B, Mahon M, LaCasse A.** Pruritic papular eruption of HIV: A cutaneous manifestation of advanced immunosuppression. Beaumont Hospital, Farmington Hills, MI, 2021 May 6. Virtual.

# ENDOCRINOLOGY

## Peer Reviewed Articles:

Sonmez Ince M, **Banka A**. Syndrome of inappropriate antidiuretic hormone secretion in a patient with pituitary apoplexy. *BMJ Case Rep.* 2021 Feb 9;14(2):e236787. doi:10.1136.

## Invited Research Presentations:

Abbas A, Bloomingdale R, Bowers TR, **Brennan M**, Bukovec F, Chinnaiyan K, et al. Practical Update in Cardiology 2021. 2021 Nov 20, Troy, MI: Beaumont CME, 2021.

**Brennan M**. Diabetes: What's new in Type 2? Beaumont Health Symposium for Primary Care Medicine 2021, 2021 Nov 5-6. Virtual.

**Brennan M**. Thyroid disease. Beaumont Practical and Progressive Updates in Primary Care Medicine, 2021 Apr 15-May 23. Virtual.

# GASTROENTEROLOGY AND HEPATOLOGY

## Peer Reviewed Articles:

Al Azzawi, M, Alshaikhli A, Altaei M, Alshami A, **Al-Hillan A**, Albayati A et al. Management approach for microscopic polyangiitis: A case report. Open Access Journal of Biomedical Science 2021 Jun 4;3(3);000290.

Al-Banaa K, Alshaikhli A, Al-Hareeri A, Abdelhalim M, **Al-Hillan A**, Joshi T. Arterial dissection in antiphospholipid syndrome patients: Two case reports and a literature review. Eur J Case Rep Intern Med. 2021 May 24;8(5):002610. doi:10.12890/2021\_002610. PMID:34123952.

ASGE Standards of Practice Committee, Jue TL, Storm AC, Naveed M, Fishman DS, Qumseya BJ, et al, **[Jamil LH]**. ASGE guideline on the role of endoscopy in the management of benign and malignant gastroduodenal obstruction. Gastrointest Endosc. 2021 Feb;93(2):309-322.e4. doi:10.1016.

Barbhaya D, Franco S, Gandhi K, Arya R, **Neupane R**, Foroughi N, et al. Characteristics and outcomes of COVID-19 infection from an urban ambulatory COVID-19 clinic – guidance for outpatient clinicians in triaging patients. J Prim Care Community Health. 2021 Jan-Dec;12:21501327211017016. doi:10.1177/21501327211017016. PMID:33985374.

Buxbaum JL, Buitrago C, Lee A, Elmunzer BJ, Riaz A, Ceppa EP et al, **[Jamil LH]**. ASGE guideline on the management of cholangitis. Gastrointest Endosc. 2021 Aug;94(2):207-221.e14. doi:10.1016.

**\*Cappell MS**. Hospitals and all stakeholders, including ERCP personnel, should equitably share profits from cost savings from decreased hospital LOS by performing non-emergent ERCPs on weekends. Dig Dis Sci. 2021 May;66(5):1761-1762. doi:10.1007/s10620-020-06785-3. PMID:33742292.

**\*Cappell MS**. Local COVID-19 epicenter in Detroit metropolitan area causing profound and pervasive reorganization of clinical, educational, research, and financial programs of a large academic Gastroenterology division with a GI Fellowship and primary medical school affiliation. Dig Dis Sci. 2021 Nov;66(11):3635-3658. doi:10.1007/s10620-021-07192-y. PMID:34518939.

**\*Cappell MS**. Novel modifications for a virtual interview visit to simulate the traditional, live, site visit for GI fellowship applicants for an academic GI fellowship program due to the COVID-19 pandemic. Dig Dis Sci. 2021 Apr;66(4):1370-1371. doi:10.1007/s10620-020-06741-1. PMID:33496874.

**\*Cappell MS**. Problems for gastrointestinal patients with diarrheal disorders: Limited access to public bathrooms because previously open public bathrooms have closed due to COVID-19 pandemic and inadequate number of bathrooms in some endoscopy suites. Am J Gastroenterol. 2021 Jun 1;116(6):1355-1356. doi:10.14309/ajg.0000000000001082. PMID:33337661.

Chandra R, Lazar NJ, Goldman S, **Imam Z**, Mansour R. Novel Coronavirus (COVID-19) infection-attributed acute pancreatitis: A case report and literature review. Cureus. 2021 Jun 17;13(6):e15725. doi:10.7759/cureus.15725. PMID:34295577.

Chong A, Kashani A, Ansstas M, **Jamil L**, Guindi M. Seronegative autoimmune enteropathy with duodenal sparing and colonic clues in an adult female. Clin J Gastroenterol. 2021 Apr;14(2):546-550. doi:10.1007/s12328-020-01336-9. PMID:33630282.

David YN, Dixon RE, **Kakked G**, Rabinowitz LG, Grinspan LT, Anandasabapathy S et al. Gender-specific factors influencing gastroenterologists to pursue careers in advanced endoscopy: Perceptions vs reality. *Am J Gastroenterol*. 2021 Mar 1;116(3):539-550. doi:10.14309/ajg.0000000000001112. PMID:33657041.

David YN, Dixon RE, **Kakked G**, Rabinowitz LG, Grinspan LT, Anandasabapathy S, et al. Pregnancy and the working gastroenterologist: Perceptions, realities, and systemic challenges. *Gastroenterology*. 2021 Sep;161(3):756-760. doi:10.1053/j.gastro.2021.05.053. PMID:34089733.

Elmunzer BJ, Smith ZL, Tarnasky P, Wang AY, Yachimski P, Banovac F et al, **[Jamil LH]**. An unsuccessful randomized trial of percutaneous vs endoscopic drainage of suspected malignant Hilar obstruction. *Clin Gastroenterol Hepatol*. 2021 Jun;19(6):1282-1284. doi:10.1016.

Elmunzer BJ, Spitzer RL, Foster LD, Merchant AA, Howard EF, Patel VA et al, **[Jamil LH, Aneese AM, Imam Z, Edhi AI, Orosey M, Tiwari A]**. Digestive manifestations in patients hospitalized with Coronavirus disease 2019. *Clin Gastroenterol Hepatol*. 2021 Jul;19(7):1355-1365.e4. doi:10.1016.

Elmunzer BJ, Wolf BJ, Scheiman JM, Tierney WM, Taylor JR, Jamil LH et al, **[Aneese AM, Imam Z, Edhi AI, Orosey M, Tiwari A]**. Association between preadmission acid suppressive medication exposure and severity of illness in patients hospitalized with COVID-19. *Gastroenterology*. 2021 Mar;160(4):1417-1422.e14. doi:10.1053.

Gill I, Shaheen AA, **Edhi AI**, Amin M, **Rana K**, **\*Cappell MS**. Novel case report: A previously reported, but pathophysiologically unexplained, association between collagenous colitis and protein-losing enteropathy may be explained by an undetected link with collagenous duodenitis. *Dig Dis Sci*. 2021 Dec;66(12):4557-4564. doi:10.1007/s10620-020-06804-3. PMID:33537921.

**Gjeorgjievski M, Ghaith G**. ERCP after percutaneous cholecystostomy: Methylene blue-assisted biliary cannulation for diminutive papilla. *Gastrointest Endosc*. 2021 Apr;93(4):984-985. doi:10.1016.

**Gjeorgjievski M, Imam Z, \*Cappell MS, Jamil LH**, Kahaleh M. A comprehensive review of endoscopic management of sleeve gastrectomy leaks. *J Clin Gastroenterol*. 2021 Aug 1;55(7):551-576. doi:10.1097/MCG.0000000000001451. PMID:33234879.

Gresham G, Placencio-Hickok VR, Lauzon M, Nguyen T, Kim H, Mehta S, et al, **[Jamil LH]**. Feasibility and efficacy of enteral tube feeding on weight stability, lean body mass, and patient-reported outcomes in pancreatic cancer cachexia. *J Cachexia Sarcopenia Muscle*. 2021 Dec;12(6):1959-1968. doi:10.1002/jcsm.12799. PMID:34609081.

Haddaden M, Aldabain L, Patel N, Maharaj A, Saif A, **Imam Z**, et al. Health care workers attitudes toward COVID-19 vaccination and the effect on personal and professional life. *J Community Hosp Intern Med Perspect*. 2021 Sep 20;11(5):585-589. doi:10.1080/20009666.2021.1951943. PMID:34567445.

Haddaden M, Husami S, Alom M, Pang Y, **Imam Z**, Keena D. Shock in the setting of Diamond-Blackfan anemia relapse. *Case Rep Cardiol*. 2021 Apr 6, 2021:6623119. doi:10.1155/2021/6623119. PMID:33927902.

Halalau A, **Imam Z**, Karabon P, Mankuzhy N, Shaheen A, Tu J, et al, **[Carpenter C]**. External validation of a clinical risk score to predict hospital admission and in-hospital mortality in COVID-19 patients. *Ann Med*. 2021 Dec;53(1):78-86. doi:10.1080/07853890.



Halalau A, Odish F, **Imam Z**, Sharrak A, Brickner E, Lee PB, et al. Epidemiology, clinical characteristics, and outcomes of a large cohort of COVID-19 outpatients in Michigan. *Int J Gen Med*. 2021 Apr 28;14:1555-1563. doi:10.2147/IJGM.S305295. PMID:33953603.

Halloran BP, **Jamil LH**, Lo SK, Reeson M, Vasiliauskas EA, Targan S, et al. Double-balloon endoscopy in Crohn disease: A tertiary referral center experience. *Inflamm Bowel Dis*. 2021 Jul 27;27(8):1248-1255. doi:10.1093/ibd/izaa287. PMID:33155643.

**Hanna A, Aneese AM, \*Cappell MS**. Biliary-colonic fistula associated with high-grade biliary stenosis from errant surgical clip during previous biliary surgery: Diagnosis and treatment by ERCP. *ACG Case Rep J*. 2021 Jun 9;8(6):e00617. doi:10.14309/crj.0000000000000617. PMID:34124279.

Hanna A, Gill I, **Imam Z**, Halalau A, **Jamil LH**. Low yield of head CT in cirrhotic patients presenting with hepatic encephalopathy. *BMJ Open Gastroenterol*. 2021 Jun;8(1):e000609. doi:10.1136/bmjgast-2021-000609. PMID:34083228.

Hanna A, **Gjeorgjievski M**, Amin M, **\*Cappell MS**. Novel case report of hypopharyngeal, extra-esophageal cancer first visualized and diagnosed by a gastroenterologist at esophagogastroduodenoscopy with endoscopic biopsies. *ACG Case Rep J*. 2021 Mar 12;8(3):e00543. doi:10.14309/crj.0000000000000543. PMID:33718508.

Hawa F, Gilbert L, Gilbert B, Hereford V, Hawa A, **Al Hillan A**, et al. Phenobarbital versus lorazepam for management of alcohol withdrawal syndrome: A retrospective cohort study. *Cureus*. 2021 Feb 11;13(2):e13282. doi:10.7759/cureus.13282. PMID:33728215.

**Imam Z**, Gill I, Antonios B, Hasan L, **Aneese A, Kakked G**, et al. Hyperlipasemia does not confer worse clinical outcomes in a retrospective cohort of novel coronavirus patients. *Minerva Gastroenterol (Torino)*. 2021 Jun 1. doi:10.23736/S2724-5985.21.02929-6. PMID:34078033.

Ionescu F, Jaiyesimi I, Petrescu I, Lawler PR, Castillo E, Munoz-Maldonado Y, et al, **[Imam Z]** Association of anticoagulation dose and survival in hospitalized COVID-19 patients: A retrospective propensity score-weighted analysis. *Eur J Haematol*. 2021 Feb;106(2):165-174. doi:10.1111/ejh.13533. PMID:33043484.

Isseh M, Mueller L, Abunafeesa H, **Imam Z**, Shakaroun D, Ghanimeh MA, et al. An urban center experience exploring barriers to adherence to endoscopic surveillance for non-dysplastic Barrett's esophagus. *Cureus*. 2021 Jan 31;13(1):e13030. doi:10.7759/cureus.13030. PMID:33665052.

Kamal F, Khan MA, Lee-Smith W, Sharma S, **Imam Z**, Henry C, et al. Role of routine second-look endoscopy in patients with acute peptic ulcer bleeding: Meta-analysis of randomized controlled trials. *Gastrointest Endosc*. 2021 Jun;93(6):1228-1237.e5. doi:10.1016.

Kamal F, Khan MA, Lee-Smith W, Sharma S, **Imam Z**, Jowhar D, et al. Efficacy and safety of supplemental intravenous lidocaine for sedation in gastrointestinal endoscopic procedures: systematic review and meta-analysis of randomized controlled trials. *Gastrointest Endosc*. 2021 Jun;93(6):1241-1249.e6. doi:10.1016/j.gie.2021.01.008. PMID:33485876.

Kamal F, Khan MA, Lee-Smith W, Sharma S, **Imam Z**, Jowhar D, et al. Outcomes of endoscopic submucosal dissection for treatment of superficial pharyngeal cancers: Systematic review and meta-analysis. *Dig Dis Sci*. 2021 Sep 9. doi:10.1007/s10620-021-07225-6. PMID:34505257.

Kamal F, Khan MA, Lee-Smith W, Sharma S, Jowhar D, Farooq U, et al, **[Imam Z]**. Efficacy of empiric esophageal dilation in patients with non-obstructive dysphagia: Systematic review and meta-

analysis. *Scand J Gastroenterol.* 2021 Dec;56(12):1490-1495. doi:10.1080/00365521.2021.1971288. PMID:34477033.

Kamal F, Khan MA, Sharma S, **Imam Z**, Howden CW. Lack of consistent associations between pharmacologic gastric acid suppression and adverse outcomes in patients with Coronavirus disease 2019: Meta-analysis of observational studies. *Gastroenterology.* 2021 Jun;160(7):2588-2590.e7. doi:10.1053/j.gastro.2021.02.028.PMID:33609504.

Kuftinec G, Elmunzer BJ, Amin S, Jamil LH, Aneese AM, Gjeorgjievski M, et al, [**Imam Z, Edhi AI, Orosey M, Tiwari A, Patwardhan S**]. The role of endoscopy and findings in COVID-19 patients, an early North American cohort. *BMC Gastroenterol.* 2021 May 7;21(1):205. doi:10.1186/s12876-021-01796-4. PMID:33962582.

Lazar N, Sardarli K, **Imam Z**, Khasawneh M, Hader I. A rare twist of the forgotten disease: A case of fusobacterium necrophorum sepsis with portomesenteric thrombosis and a review of the literature. *Case Rep Gastrointest Med.* 2021 May 27;2021:6699867. doi:10.1155/2021/6699867. PMID:34136289.

Lew D, **Jamil L**, Lo SK, Rezaie A. Neck bulging during expiration: A new sign to diagnose Killian-Jamieson diverticulum. *Am J Gastroenterol.* 2021 Apr;116(4):633. doi:10.14309/ajg.0000000000000941. PMID:33982925.

Mittal C, Diehl DL, Draganov PV, **Jamil LH**, Khalid A, Khara HS, et al. Practice patterns, techniques, and outcomes of flexible endoscopic myotomy for Zenker's diverticulum: A retrospective multicenter study. *Endoscopy.* 2021 Apr;53(4):346-353. doi:10.1055/a-1219-4516. PMID:32663877.

Moein HR, Pervez E, Faidhalla S, **Habbal H**, Khan H, Wadehra A, et al, [**Mohamad B**]. Role of bowel preparation in adenoma detection rate and follow-up recommendations in African American dominant patient population. *Cureus.* 2021 Jun 30;13(6):e16065. doi:10.7759/cureus.16065. PMID:34345550.

Paleti S, Sobani ZA, McCarty TR, Gutta A, Gremida A, Shah R, et al, [**Jamil L**]. Impact of COVID-19 on gastroenterology fellowship training: A multicenter analysis of endoscopy volumes. *Endosc Int Open.* 2021 Sep 16;9(10):e1572-e1578. doi:10.1055/a-1526-1419. PMID:34540553.

Qumseya BJ, **Jamil LH**, Elmunzer BJ, Riaz A, Ceppa EP, Thosani NC, et al. ASGE guideline on the role of endoscopy in the management of malignant hilar obstruction. *Gastrointest Endosc.* 2021 Aug;94(2):222-234.e22. doi:10.1016.

Shaheen AA, Gill I, **Edhi AI**, Amin M, \***Cappell MS**. Pancreatic ganglioneuroma presenting in an octogenarian. *ACG Case Rep J.* 2021 Mar 19;8(3):e00546. doi:10.14309/crj.0000000000000546. PMID:33763500.

Simons-Linares CR, **Imam Z**, Chahal P. Viral-attributed acute pancreatitis: A systematic review. *Dig Dis Sci.* 2021 Jul;66(7):2162-2172. doi:10.1007/s10620-020-06531-9. PMID:32789532.

Tau JA, **Imam Z**, Bazerbachi F. Bone wax-tipped catheter and 3-way stopcock to optimize hemostatic powder deployment. *VideoGIE.* 2021 Jun 23;6(9):387-389. doi:10.1016/j.vgie.2021.05.011. PMID:34527832.

Wadehra A, Moein HR, Kakos D, Pervez E, Faidhalla S, **Habbal H**, et al, [**Mohamad B**]. Evaluating the improvement in colonoscopy quality indicators subsequent to publication of professional society guidelines. *Cureus.* 2021 Jan 31;13(1):e13040. doi:10.7759/cureus.13040. PMID:33680586.

Wang BC, Wang KK, Paul N, Jayaraman V, Wang Q, Abboud Y, et al, **[Jamil LH]**. Fluoroscopy-guided shaped endobiliary biopsy at endoscopic retrograde cholangiography can accurately diagnose biliary neoplasia: Results from a large cohort. *Endosc Int Open*. 2021 Jul;9(7):E1039-E1048. doi:10.1055/a-1399-8031. PMID:34222628.

### **Abstracts with Associated Research Publications:**

**Al-Hillan A**, Alshaikhli AM, Merza N, Ghavimi S, Jain S, Joshi TV. S2903 A case of imaging-negative infiltrative HCC presented as duodenal mass. *Am J Gastroenterol* 2021 Oct 1;116:S1202-3.

**Al-Hillan A**, Alshami A, Mohamed M, Alkhero M, Hawa FN, Al-Banaa K, et al. Sa318 Clinical and epidemiological characteristics of acute liver failure due to Hepatitis B: Analysis study of National inpatient sample. *Gastroenterology* 2021 May 1;160(6):S823.

Alkhero M, **Al-Hillan A**, Shalavadi M, Jain S, Ghavimi S, Joshi TV. S2741 Sickling manifestations: A challenging case of sickle cell hepatopathy. *Am J Gastroenterol* 2021 Oct 1;116:S1146.

Alshaikhli AM, **Al-Hillan A**, Alani M, Jain S, Ghavimi S, Joshi TV. S2873 A case of imaging-negative HCC with rare paraneoplastic syndrome. *Am J Gastroenterol* 2021 Oct 1;116:S1191-2.

**Aneese A, Edhi A, Imam Z**, Schoenfeld P. S304 Adherence to guideline-appropriate recommendations after normal CRC screening colonoscopy in average-risk individuals. *Am J Gastroenterol* 2021 Oct 1;116:S133.

Gill I, **Edhi A, Rana K**. S3609 Dieulafoy's lesion: An unforeseen catastrophe. *Am J Gastroenterol* 2021 Oct 1;116:S1478.

Gill I, **Imam Z, Orosey M**, Bedi DS, **Al Sibae MR Jamil L**. Bile leak from the duct of Luschka following liver transplantation. *Am J Gastroenterol*. 2021;116:S1072-S1073.

Gill I, Shams C, **Patel A**. Propofol-induced mania during a routine colonoscopy. *Am J Gastroenterol*. 2021;116:S965.

Gill I, Shams C, **Hanna A**, George J, **Jamil LH, Patel A**. Role of demographics in non-invasive testing for colorectal cancer screening: Do targeted cut-off values improve detection? *Am J Gastroenterol* 2021 Oct 1;116:S117.

Gomez Rojas OR, Gill I, **Imam Z**, Karabon P, Halalau A. Modified clinical risk score to predict hospital admission and in-hospital mortality in COVID-19 patients. *J Gen Intern Med*. 2021 Jul 23;36(Supp 1):S94.

Haider M, Alsbih AF, **Imam Z**, Malik A, Iqbal S, Nadeem M, et al. Hereditary hemochromatosis as an independent risk factor for liver cancer: A matched case-control study of the National Inpatient Sample Database, *Hepatology* 2021 Oct 1;74:645A-646A.

Joshi TV, **Al-Hillan A**, Kanwal F, Vierling J, Rana A, Goss J, et al. S1140 Practical consideration for drug monitoring of tacrolimus in liver transplant recipients with SARS-CoV-2 infection. *Am J Gastroenterol* 2021 Oct;116:S535.

Kamal F, Khan MA, Sharma S, **Imam Z**, Jowhar D, Henry C, et al. Su069 Proton pump inhibitors do not increase the risk of colorectal cancer: Systematic review and meta-analysis. *Gastroenterology*. 2021 May 1;160(6):S-603-S604.

Kamal F, Khan MA, Sharma S, **Imam Z**, Jowhar D, Zafar MU, et al. Fr453 Is Metformin associated with lower risk of colorectal cancer? Systematic review and meta-analysis. *Gastroenterology*. 2021 May 1;160(6):S-323.

Lazar N, **Aneese A, Jamil LH**. S2546 Endoscopic removal of uncovered metallic biliary stents: A case report. *Am J Gastroenterol*, 2021 Oct 1;116:S1073.

Lazarczyk P, Zakaria A, Chandra R, **Imam Z**, Li W, Gamarra R. Hiding in plain sight: A challenging case of obscure GI bleeding due to appendiceal endometriosis in a postmenopausal female patient. *Am J Gastroenterol*, 2021 Oct 1;116:S1002.

Merza N, Kiwan W, **Al-Hillan A**, Prakash S, Naguib T. S3261 Eosinophilic esophagitis demographic insight from National Inpatient Data 2004-2014. *Am J Gastroenterol* 2021 Oct 1;116:S1344-5.

Merza N, Kiwan W, Rutledge BP, **Al Hillan A, Mohamad B**. S3271 Impacts of dysphagia among stroke patients, retrospective nationwide cohort study. *Am J Gastroenterol* 2021 Oct 1;116:S1348.

Merza N, Rutledge BP, **Al-Hillan A**, Naguib T. S3217 Demography of acute pancreatitis among cannabis users: Retrospective nationwide cohort analysis. *Am J Gastroenterol* 2021 Oct 1;116:S1325.

Merza N, Rutledge BP, **Al-Hillan A**, Saadaldin M, Naguib T. S3212 Is cannabis associated with increased incidence of acute pancreatitis? Retrospective cohort analysis. *Am J Gastroenterol* 2021 Oct 1;116:S1322-3.

Merza N, Rutledge BP, **Al-Hillan A**, Shaaeli M, Saadaldin M, Naguib T. S613 Colonoscopy adverse events in urban versus rural hospitals: Retrospective cohort analysis from nationwide data. *Am J Gastroenterol* 2021 Oct 1;116:S278.

Merza N, Rutledge BP, Prakash S, Shaaeli M, **Al-Hillan A**, Saadaldin M, et al. S3221 Epidemiological characteristics of pancreatic cancer national admissions: Cohort study of Inpatient National Data 2004-2014. *Am J Gastroenterol* 2021 Oct 1;116:S1327.

Pandey S, Amin M, \***Cappell MS**. Metastasis of solitary fibrous tumor to the peripancreatic area causing pancreatitis. *Am J Gastroenterol*. 2021;116:S754.

Qamar K, **Tiwari A**. Pulmonary artery sling – an extremely rare etiology of dysphagia. *Am J Gastroenterol* 2021 Oct;116, S918.

Qamar K, **Tiwari A**. S2135 CMV esophagitis in immunocompetent person treated with oral valganciclovir. *Am J Gastroenterol* 2021 Oct 1;116:S918.

**Savin J, Sharma J, Piziali D, Robbins JM, Ghaith G**, Savin M. Jejunal diverticula, an unusual cause of upper gastrointestinal bleeding: Case report and literature review. *J Vasc Interv Radiol* 2021 May;32(5):e14.

Sharma D, Choden T, Halaseh R, **Neupane R**, Mattar M, Malhotra N. Sa078 Clinical and laboratory markers do not predict deep histologic remission in patients with ulcerative colitis. *Gastroenterology*. 2021 May;160(6):S-411-S412.

Stolow E, El-Kurdi B, Harrington A, Keiser S, Kuwelker S, Tejani A et al, **[Imam Z]**. S1301 A retrospective review: Famotidine use is not associated with improved outcomes in hospitalized patients with COVID-19. *Am J Gastroenterol* 2021 Oct 1;116:S598.

Tennant T, Pandey S, **Edhi A, Batke M**. Esophageal stricture caused by cytomegalovirus in a renal transplant patient not infected by human immune deficiency virus. *Am J Gastroenterol*. 2021;116:S889.

Wakil A, **Al-Hillan A**, Mohamed M, Salomon F, Koneru G. S2840 Drug-induced liver injury (DILI) secondary to kratom use. *Am J Gastroenterol* 2021 Oct 1;116:S1180.

Wakil A, Mohamed M, **Al-Hillan A**, Salomon F, Koneru G, Han MA. S2839 Non-cirrhotic portal hypertension secondary to hepatic arterioportal fistula. *Am J Gastroenterol* 2021 Oct:116;S1179-80.

# GENERAL INTERNAL MEDICINE

## Peer Reviewed Articles:

Al-Faraj AO, **Pandey S**, Herlihy MM, Pang TD. Factors affecting breastfeeding in women with epilepsy. *Epilepsia*. 2021 Sep;62(9):2171-2179. doi:10.1111/epi.17003. PMID:34289107.

**Alshaikhli A**, Rokkam VR. Hemophilia B. 2021 Aug 14. Treasure Island, FL. StatPearls Publishing, 2021 Jan. PMID:32809627.

**Alshaikhli A**, Bordoni B. Tangier Disease. 2021 Aug 8. Treasure Island, FL. StatPearls Publishing, 2021 Jan. PMID:32965921.

Aziz MK, Herrmann J, Marmagkiolis K, **Balanescu DV**, **Donisan T**, Pushparaji B, et al. Coronary stent healing in cancer patients – an optical coherence tomography perspective. *Front Cardiovasc Med*. 2021 Jun 7;8: 665303. doi:10.3389/fcvm.2021.665303. PMID:34164440.

Baiyasi AF, **Bangash N**. The long-term use of methotrexate monotherapy as a steroid-sparing agent for patients with pulmonary sarcoidosis. *Cureus*. 2021 Aug 27;13(8):e17509.doi:10.7759/cureus.17509. PMID:34595077.

**Balanescu DV**, Aziz MK, **Donisan T**, Palaskas N, Lopez-Mattei J, Hassan S, et al. Cancer treatment resumption in patients with new-generation drug-eluting stents. *Coron Artery Dis*. 2021 Jun 1;32(4): 295-301. doi:10.1097/MCA.0000000000000986. PMID:33196581.

Bernson J, **Hedderich P**, Wendling AL. Examining access to psychiatric care in Michigan's Upper Peninsula. *PRiMER*. 2021 Dec 17;5: 44. doi:10.22454/PRiMER.2021.501713. PMID:35178506.

Bhatia K, Jain V, **Aggarwal D**, Vaduganathan M, Arora S, Hussain Z, et al. Dual antiplatelet therapy versus aspirin in patients with stroke or transient ischemic attack: Meta-analysis of randomized controlled trials. *Stroke*. 2021 Jun;52(6):e217-e223. doi:10.1161/STROKEAHA.120.033033. PMID:33902301.

**Chandra R**, **Lazar NJ**, **Goldman S**, Imam Z, Mansour R. Novel Coronavirus (COVID-19) infection-attributed acute pancreatitis: A case report and literature review. *Cureus*. 2021 Jun 17;13(6):e15725. doi:10.7759/cureus.15725. PMID:34295577.

Cheah R, Chirnaksorn S, **Abdelrahim AH**, Horgan L, Capstick T, Casey J, et al. The perils and pitfalls of esophageal dysmotility in idiopathic pulmonaryfibrosis. *Am J Gastroenterol*. 2021 Jun 1;116(6):1189-1200. doi:10.14309/ajg.0000000000001202. PMID:34074825.

**Donisan T**, **Balanescu DV**, Iliescu C, Balanescu SM. Manual aspiration thrombectomy for embolic acute mesenteric ischemia. *Tex Heart Inst J*. 2021 Jun 1;48(2):e186814. doi:10.14503/THIJ-18-6814. PMID:34139762.

**Donisan T**, Mertens A, Sayed L. Kawasaki related coronary artery disease refractory to angioplasty: The role of intravascular shockwave lithotripsy. *Cureus*. 2021 Oct 25;13(10):e19020. doi:10.7759/cureus.19020. PMID:34853747.

**Donisan T**, Sayed L. Dual ostia right coronary artery: A newly described coronary anomaly. *JACC Cardiovasc Interv*. 2021 Apr 12;14(7):e69-e70. doi:10.1016.

**Faieta A**, Dancik T. Refractory acute interstitial nephritis in the setting of nivolumab therapy. *Case Rep Nephrol.* 2021 Mar 1;2021 :6640154. doi:10.1155/2021/6640154. PMID:33728076.

Farooq U, Rasul A, Zafarullah M, Abbas G, Rasool M, **Ali F**, et al. Nanoemulsions as novel nanocarriers for drug delivery across the skin: In-vitro, in-vivo evaluation of miconazole nanoemulsions for treatment of Candidiasis albicans. *Des Monomers Polym.* 2021 Aug 17;24(1):240-258. doi:10.1080/15685551.2021.1965724. PMID:34434070.

Gautam M, **Kaur M**, Sivananthan M. Parotid gland enlargement associated with clonazepam: A case report. *J Acad Consult Liaison Psychiatry.* 2021 Nov-Dec;62(6):657-658. doi:10.1016/j.jaclp.2021.06.003. PMID:34186253.

Ghandour M, **Shereef H**, Adam O, Osman-Malik Y, Bhat Z. Discontinuation of intermittent hemodialysis in HIV-associated nephropathy following initiation of antiretroviral therapy. *Cureus.* 2021 Feb 6;13(2):e13181. doi:10.7759/cureus.13181. PMID:33717725.

Ghandour M, **Shereef H**, Homida H, Revankar S, Zachariah MS. Disseminated nocardiosis in a renal transplant recipient. *Cureus.* 2021 Jan 5;13(1):e12497. doi:10.7759/cureus.12497. PMID:33564506.

Gill C, Lee M, **Balanescu DV**, **Donisan T**, Serauto Canache AJ, et al. Transcatheter and surgical aortic valve replacement impact on outcomes and cancer treatment schedule. *Int J Cardiol.* 2021 Mar 1;326: 62-70. doi:10.1016.

**Gill I**, **Antonios B**, Imam Z, **Ghaith G**. Self-expanding metal stent (SEMS) placement to treat bleeding from late radiation esophagitis. *Case Rep Gastroint Med* 2021: 6678139. 2021Jan 23. doi:10.1155/2021/6678139.

**Gill I**, **Shaheen AA**, Edhi AI, Amin M, Rana K, Cappell MS. Novel case report: A previously reported, but pathophysiologically unexplained, association between collagenous colitis and protein-losing enteropathy may be explained by an undetected link with collagenous duodenitis. *Dig Dis Sci.* 2021 Dec;66(12):4557-4564. doi:10.1007/s10620-020-06804-3. PMID:33537921.

**Gill I**, **Shams C**, Quiroz E, Krishnan SM, Gaikazian S. Large cell neuroendocrine tumor of the gastrointestinal tract with concurrent tubular adenomas. *Gazz Med Ital Arch Sci Med.* 2021 Sept;180(9):498-502. doi:10.23736/S0393-3660.20.04399-5.

**Giovanatti A**, Elassar H, Karabon P, Wunderlich-Barillas T, **Halalau A**. Social determinants of health correlating with mechanical ventilation of COVID-19 patients: A multi-center observational study. *Int J Gen Med.* 2021 Nov 20;14: 8521-8526. doi:10.2147/IJGM.S334593. PMID:34848998.

Gunther KH, Smith J, Boura J, **Sherman A**, Siegel D. The use of bedside ultrasound for gallstone disease care within a community-based emergency department: A confirmation bias. *Spartan Med Res J.* 2021 Apr 13;6(1):18182. doi:10.51894/001c.18182. PMID:33869999.

Gupta R, **Madanat L**, Jindal V, Gaikazian S. Celiac plexus block complications: A case report and review of the literature. *J Palliat Med.* 2021 Sep;24(9):1409-1412. doi:10.1089.

Gupta R, **Smalley M**, Anusim N, Jindal V, Singh Rahi M, Gupta S, et al. Paradigm shift in the management of metastatic non-small cell lung cancer. *Int J Clin Pract.* 2021 Nov;75(11):e14533. doi:10.1111/ijcp.14533. PMID:34129744.

Haddaden M, **Hanna A**, **Odish F**, Husami S, Imam Z, **Tahhan M**. Cholestatic hepatitis in Graves' disease: A diagnostic challenge. *ACG Case Rep J.* 2021 Jan 14;8(1):e00526.doi:10.14309/crj.0000000000000526. PMID:33490298.

**Halalau A**, Fuller W, Wheeler S. Canagliflozin reduces the risk of kidney failure in patients with Type 2 diabetes mellitus and nephropathy: The CREDENCE Randomized Trial. *J Gen Intern Med*. 2021 Feb 5. doi:10.1007/s11606-020-06216-z. PMID:33547569.

**Halalau A**, Halalau M, **Carpenter C**, Abbas AE, Sims M. Vestibular neuritis caused by severe acute respiratory syndrome coronavirus 2 infection diagnosed by serology: Case report. *SAGE Open Med Case Rep*. 2021 May 13, 9:2050313X211013261. doi:10.1177/2050313X211013261. PMID:34035914.

**Halalau A**, **Holmes B**, Rogers-Snyr A, **Donisan T**, Nielsen E, Cerqueira TL, et al. Evidence-based medicine curricula and barriers for physicians in training: A scoping review. *Int J Med Educ*. 2021 May 28;12:101-124. doi:10.5116/ijme.6097.ccc0. PMID:34053914.

**Halalau A**, Imam Z, Karabon P, Mankuzhy N, **Shaheen A**, **Tu J**, et al, [**Carpenter C**]. External validation of a clinical risk score to predict hospital admission and in-hospital mortality in COVID-19 patients. *Ann Med*. 2021 Dec;53(1):78-86. doi:10.1080/07853890.

**Halalau A**, **Odish F**, Imam Z, Sharrak A, Brickner E, Lee PB, et al, [**Foglesong A**, **Michel A**, **Gill I**,**Carpenter CF**]. Epidemiology, clinical characteristics, and outcomes of a large cohort of COVID-19 outpatients in Michigan. *Int J Gen Med*. 2021 Apr 28;14:1555-1563. doi:10.2147/IJGM.S305295. PMID:33953603.

**Hanna A**, **Aneese AM**, Cappell MS. Biliary-colonic fistula associated with high-grade biliary stenosis from errant surgical clip during previous biliary surgery: Diagnosis and treatment by ERCP. *ACG Case Rep J*. 2021 Jun 9;8(6):e00617. doi:10.14309/crj.0000000000000617. PMID:34124279.

**Hanna A**, **Gill I**, Imam Z, **Halalau A**, Jamil LH. Low yield of head CT in cirrhotic patients presenting with hepatic encephalopathy. *BMJ Open Gastroenterol*. 2021 Jun;8(1):e000609. doi:10.1136/bmjgast-2021-000609. PMID:34083228.

**Hanna A**, Gjeorgjievski M, Amin M, Cappell MS. Novel case report of hypopharyngeal, extra-esophageal cancer first visualized and diagnosed by a gastroenterologist at esophagogastro-duodenoscopy with endoscopic biopsies. *ACG Case Rep J*. 2021 Mar 12;8(3):e00543. doi:10.14309/crj.0000000000000543. PMID:33718508.

Harvey R, Hermez M, **Schanz L**, Karabon P, Wunderlich-Barillas T, **Halalau A**. Healthcare disparities correlated with in-hospital mortality in COVID-19 patients. *Int J Gen Med*. 2021 Sep 14;14: 5593-5596. doi:10.2147/IJGM.S326338. PMID:34548810.

Heuvelhorst KL, Diener T, **Manzoor H**, Khadra M, Musa F, Jafri SK. Cerebral venous sinus thrombosis without thrombotic thrombocytopenic syndrome in a male patient after Ad26. COV2. S vaccination. *American Journal of Medical Case Reports*. 2021;9(12):719-21.

Imam Z, **Gill I**, **Antonios B**, Hasan L, Aneese A, Kakked G, et al, [**Halalau A**]. Hyperlipasemia does not confer worse clinical outcomes in a retrospective cohort of novel coronavirus patients. *Minerva Gastroenterol (Torino)*. 2021 Jun 1. doi:10.23736/S2724-5985.21.02929-6. PMID:34078033.

Imam Z, **Hanna A**, Jomaa D, **Khasawneh M**, Abonofal A, Murad MH. Hypercalcemia of malignancy and acute pancreatitis. *Pancreas*. 2021 Feb 1;50(2):206-213. doi:10.1097/MPA.0000000000001741. PMID:33565797.



**Ionescu F**, Anusim N, Ma E, Qu L, Blankenship LM, Stender M, et al. Inferior vena cava filter retrieval trends: A single-center experience. *TH Open*. 2021 Feb 10;5(1):e73-e80. doi:10.1055/s-0040-1722707. PMID:33585788, PMCID:PMC7875678.

**Ionescu F**, Cooper C, **Petrescu I**, George J, Mansuri S. Safety of apixaban compared to warfarin in hemodialysis patients: Do antiplatelets make a difference? *Eur J Haematol*. 2021 May;106(5):689-696. doi:10.1111/ejh.13599. PMID:33569825.

**Ionescu F**, Jaiyesimi I, **Petrescu I**, Lawler PR, Castillo E, Munoz-Maldonado Y, et al. Association of anticoagulation dose and survival in hospitalized COVID-19 patients: A retrospective propensity score-weighted analysis. *Eur J Haematol*. 2021 Feb;106(2):165-174. doi:10.1111/ejh.13533. PMID:33043484.

**Ionescu F**, Mansuri S. The role of direct oral anticoagulants in advanced chronic kidney disease—questions and future directions. *Archives of Nephrology and Renal Studies*. 2021;1(1):16-20.

**Ionescu F**, **Zimmer MS**, **Petrescu I**, Castillo E, Bozyk P, Abbas A, et al. Extubation failure in critically ill COVID-19 patients: Risk factors and impact on in-hospital mortality. *J Intensive Care Med*. 2021 Sep;36(9):1018-1024. doi:10.1177/08850666211020281. PMID:34074160.

Jacob R, Palaskas NL, Lopez-Mattei J, Hassan S, Kim P, **Donisan T**, **Balanescu DV**, et al. How to perform pericardiocentesis in cancer patients with thrombocytopenia: A single-center experience. *JACC CardioOncol*. 2021 Jul 27;3(3):452-456. doi:10.1016/j.jaccao.2021.05.005. PMID:34604808.

Jain V, Bhatia K, **Aggarwal D**, Bansal A, Narasimhan B, Hendrickson MJ, et al. Direct oral anticoagulants for stroke prevention in patients with atrial fibrillation and bioprosthetic heart valves. *Structural Heart*. 2021 Nov 2;5(6):631-3. doi:10.1080/24748706.2021.1972193.

Jewulski J, **Khanal S**, Dahal K. Coronary vasospasm: A narrative review. *World J Cardiol*. 2021 Sep 26;13(9):456-463. doi:10.4330/wjc.v13.i9.456. PMID:34621490.

Kadri AN, Khodor S, **Ali A**, **Nusairat L**, **Mahmood A**, Nahhas G, et al. National trends of tobacco, alcohol, and drug use in patients admitted with acute myocardial infarction. *Cardiovasc Revasc Med*. 2021 May;26: 26-31. doi:10.1016.

Kadri AN, Zawit M, Al-Adham R, **Hader I**, **Nusairat L**, Almahmoud MF, et al. Prevalence of venous thromboembolism in admissions and readmissions with and without syncope: A nationwide cohort study. *Eur Heart J Qual Care Clin Outcomes*. 2021 Jan 25;7(1):52-58. doi:10.1093/ehjqcco/qcz051. PMID:31562526.

Kashif S Sr, **Pandey S**, Warriach ZI. Neurophysiological markers of Internet Gaming Disorder: A literature review of electroencephalography studies. *Cureus*. 2021 Sep 10;13(9):e17866. doi:10.7759/cureus.17866. PMID:34660067.

**Kelekar AK**, Lucia VC, **Afonso NM**, Mascarenhas AK. COVID-19 vaccine acceptance and hesitancy among dental and medical students. *J Am Dent Assoc*. 2021 Aug;152(8):596-603. doi:10.1016/j.adaj.2021.03.006 PMID:34030867.

**Kelekar AK**, Lucia VC, **Afonso NM**. Combating vaccine hesitancy: A call to implement healthcare worker training in patient counseling skills. *Cancer Res Stat Treat*. 2021 Jul-Sep;4(3):562-563. doi:10.4103/crst.crst\_177\_21.

**Lazar N**, **Sardarli K**, Imam Z, Khasawneh M, Hader I. A rare twist of the forgotten disease: A case of *Fusobacterium necrophorum* sepsis with portomesenteric thrombosis and a review of the literature.

Case Rep Gastrointest Med. 2021 May 27;2021:6699867. doi:10.1155/2021/6699867. PMID:34136289.

Lucia VC, **Kelekar A**, **Afonso NM**. COVID-19 vaccine hesitancy among medical students. J Public Health (Oxf). 2021 Sep 22;43(3):445-449. doi:10.1093/pubmed/fdaa230. PMID:33367857.

**Madanat L**, Bloomingdale R, Shah K, Khalife A, Haines DE, Mehta NK. Left atrial appendage occlusion device infection: Take it or leave it? HeartRhythm Case Rep. 2021 Aug 21;7(11):750-753. doi:10.1016/j.hrcr.2021.08.006. PMID:34820273.

**Madanat L**, Khalife A, Sims M. Asystole during nasopharyngeal swab: Is COVID-19 to blame? Cureus. 2021 Jun 4;13(6):e15448. doi:10.7759/cureus.15448. PMID:34249579.

**Madanat L**, **Saleh M**, Maraskine M, **Halalau A**, **Bukovec F**. Congestive heart failure 30-day readmission: Descriptive study of demographics, co-morbidities, heart failure knowledge, and self-care. Cureus. 2021 Oct 11;13(10):e18661. doi:10.7759/cureus.18661. PMID:3478624.

**Madanat L**, Schoenherr D, Wey E, Gupta R. Rasburicase-induced haemolysis and methemoglobinemia: An ongoing issue. BMJ Case Rep. 2021 Mar 16;14(3):e240967. doi:10.1136.

Mahmood R, Al Banaa K, **Ibrahim I**, **Hashim A**, **Torregrosa L**. Sarcoidosis vs. colon cancer metastasis: Diagnostic dilemma and the role of PET scan in monitoring disease activity. Case Rep Rheumatol. 2021 Apr 20;2021: 5529523. doi:10.1155/2021/5529523. PMID:34258100.

Mando R, Waheed M, **Michel A**, Karabon P, **Halalau A**. Prediabetes as a risk factor for major adverse cardiovascular events. Ann Med. 2021 Dec;53(1):2090-2098. doi:10.1080/07853890.2021.2000633. PMID:34761971.

**Manzoor H**, **El-Sawalhy E**, **Hanayni W**, **Renfigo GT**, Ashkar AG. A case of massive hemothorax leading to obstructive shock. American Journal of Medical Case Reports. 2021 Mar 14;9(5):305-7.

Mascarenhas AK, Lucia VC, **Kelekar A**, **Afonso NM**. Dental students' attitudes and hesitancy toward COVID-19 vaccine. J Dent Educ. 2021 Sep;85(9):1504-1510. doi:10.1002/jdd.12632. PMID:33913152.

McCrohan M, Nierenberg L, Karabon P, Wunderlich-Barillas T, **Halalau A**. The impact of disparities in social determinants of health on hospitalization rates for patients with COVID-19 in Michigan. Int J Gen Med. 2021 Nov 3;14: 7681-7686. doi:10.2147/IJGM.S328663. PMID:34764681.

Moein HR, Pervez E, Faidhalla S, **Habbal H**, Khan H, Wadehra A, et al, **[Mohamad B]**. Role of bowel preparation in adenoma detection rate and follow-up recommendations in African American dominant patient population. Cureus. 2021 Jun 30;13(6):e16065. doi:10.7759/cureus.16065. PMID:34345550.

**Mustafa SF**, Zafar MR, Vira A, **Halalau A**, Rabah M, Dixon S, et al. In-hospital outcomes of patients with chronic kidney disease undergoing percutaneous coronary intervention for chronic total occlusion: A systematic review and meta-analysis. Coron Artery Dis. 2021 Dec 1;32(8):681-688. doi:10.1097/MCA.0000000000001026. t. PMID:33587359.

**Naser JA**, **Petrescu I**, **Ionescu F**, Nkomo VT, Pislaru C, Schaff HV, et al. Gradient changes in bioprosthetic valve thrombosis: Duration of anticoagulation and strategies to improve detection. Open Heart. 2021 May;8(1):e001608. doi:10.1136/openhrt-2021-001608. PMID:34031215.

Noureldin M, Cohen-Mekelburg S, **Mahmood A**, Stidham R, Higgins PDR, Govani S, et al. Trends of 5-aminosalicylate medication use in patients with Crohn disease. *Inflamm Bowel Dis*. 2021 Mar 15;27(4):516-521. doi:10.1093/ibd/izaa127. PMID:32469067.

**Pandey S**, Fish SS, Roy HK. Increasing colorectal cancer in the young population and tailoring of the colorectal cancer screening recommendations in subpopulation: A retrospective single-center study. *Int J Colorectal Dis*. 2021 Jul;36(7):1515-1524. doi:10.1007/s00384-021-03934-6. PMID:33934174.

Pushparaji B, **Donisan T**, **Balanescu DV**, Palaskas N, Kim P, Lopez-Mattei J, et al. Interventional strategies in cancer-induced cardiovascular disease. *Curr Oncol Rep*. 2021 Sep 27;23(11):133. doi:10.1007/s11912-021-01113-y. PMID:34570291.

**Rao LG**, Rao AM, Rao SP, Rao R, Bhavsar JH, Liu WY, et al. Outcomes after coronary orbital atherectomy at centers without on-site surgical backup: Diabetics versus non-diabetics and impact of access site. *Cardiovasc Revasc Med*. 2021 Sep;30: 20-25. doi:10.1016.

**Said A**, Sahlieh A, **Sayed L**. A comparative analysis of the efficacy and safety of therapeutic interventions in phlegmasia cerulea dolens. *Phlebology*. 2021 Jun;36(5):392-400. doi:10.1177/0268355520975581. PMID:33236674.

**Sankar S**, Habib M, Jaafar S, Nagaraja V, Roofeh D, Young A, et al. Hospitalisations related to systemic sclerosis and the impact of interstitial lung disease. Analysis of patients hospitalised at the University of Michigan, USA. *Clin Exp Rheumatol*. 2021 Jul-Aug;39 (Suppl 131)(4):43-51. doi:10.55563/clinexprheumatol/9ivp9g. PMID:33734968.

Saydam O, Ozgen Saydam B, Adiyaman SC, **Sonmez Ince M**, Eren MA, Keskin FE, et al. Risk factors for diabetic foot ulcers in metreleptin naïve patients with lipodystrophy. *Clin Diabetes Endocrinol*. 2021 Oct 1;7(1):18. doi:10.1186/s40842-021-00132-9. PMID:34593051.

**Shaheen AA**, **Hader I**, Aqel Z. Novel presentation of terminal ileitis associated with secukinumab therapy. *Case Rep Gastrointest Med*. 2021 Sep 28;2021: 5213876. doi:10.1155/2021/5213876. PMID:34621550.

**Shaheen AA**, **Gill I**, Edhi AI, Amin M, Cappell MS. Pancreatic ganglioneuroma presenting in an octogenarian. *ACG Case Rep J*. 2021 Mar 19;8(3):e00546. doi:10.14309/crj.0000000000000546. PMID:33763500.

**Shereef H**, **Ahmed M**, Ghandour M, Tapia-Zegarra G. A rare case report of ruptured cyst presenting with acute meningitis in an untreated neurocysticercosis. *Cureus*. 2021 Feb 8;13(2):e13222. doi:10.7759/cureus.13222. PMID:33728172.

**Shereef H**, Yassin AS, Subahi A, Ali O. Treatment challenges of ST-segment elevation myocardial infarction within the constraint of COVID-19 pandemic. *Am J Ther*. 2021 Nov-Dec 01;28(6):e738-e740. doi:10.1097/MJT.0000000000001223. PMID:34757967.

**Sigua-Arce P**, **Mando R**, **Spencer L**, **Halalau A**. Treatment of May-Thurner's syndrome and associated complications: A multicenter experience. *Int J Gen Med*. 2021 Aug 20;14: 4705-4710. doi:10.2147/IJGM.S325231. PMID:34447265.

Solano C, **Thapa S**, Chisti MM. Adult Xp11.2 translocation renal cell carcinoma managed effectively with pazopanib. *BMJ Case Rep*. 2021 Jun 25;14(6):e243058. doi:10.1136/bcr-2021-243058. PMID:34172479.

- Sonmez Ince M**, Banka A. Syndrome of inappropriate antidiuretic hormone secretion in a patient with pituitary apoplexy. *BMJ Case Rep.* 2021 Feb 9;14(2):e236787. doi:10.1136.
- Tagami T, Almahariq MF, **Balanescu DV**, Quinn TJ, Dilworth JT, Franklin BA, et al. Usefulness of coronary computed tomographic angiography to evaluate coronary artery disease in radiotherapy-treated breast cancer survivors. *Am J Cardiol.* 2021 Mar 15;143:14-20. doi:10.1016.
- Thapa SB, Kakar TS, Mayer C, Khanal D.** Clinical outcomes of in-hospital cardiac arrest in COVID-19. *JAMA Intern Med.* 2021 Feb 1;181(2):279-281. doi:10.1001.
- Trang A, Bushman J, Halalau A.** Effect of long-term proton pump inhibitor use on glycemic control in patients with type two diabetes mellitus. *J Diabetes Res.* 2021 Jul 29;2021:5578265. doi:10.1155/2021/5578265. PMID:34368365.
- Vanood A, **Owen R**, Maraskine M, Schreiber A, **Pokharel R**, Cohen L. Collapsing FSGS with concurrent class 2 and 3 lupus nephritis: A case report and review of the literature. *Case Rep Nephrol Dial.* 2021 Jan 28;11(1):16-25. doi:10.1159/000510840. PMID:33708796.
- Wadehra A, Moein HR, Kakos D, Pervez E, Faidhalla S, **Habbal H**, et al, **[Mohamad B]**. Evaluating the improvement in colonoscopy quality indicators subsequent to publication of professional society guidelines. *Cureus.* 2021 Jan 31;13(1):e13040. doi:10.7759/cureus.13040. PMID:33680586.
- Weiner AJ, **Weiner Y**, Weiner A. Corneal parameters after tube-shunt implantation through the ciliary sulcus. *Ophthalmol Glaucoma.* 2021 Jan-Feb;4(1):32-41. doi:10.1016.
- Weiner J, Svetlicky N, Kang J, Sadat M, Khan K, Duttargi A, et al, **[Kara Balla A]**. CD69+ resident memory T cells are associated with graft-versus-host disease in intestinal transplantation. *Am J Transplant.* 2021 May;21(5):1878-1892. doi:10.1111/ajt.16405. PMID:33226726.
- Wilson NR, Lee MT, Gill CD, Serauto Canache A, **Donisan T, Balanescu DV**, et al. Prognostic factors and overall survival after pericardiocentesis in patients with cancer and thrombocytopenia. *Front Cardiovasc Med.* 2021 Apr 21;8: 638943. doi:10.3389/fcvm.2021.638943. PMID:33969007.
- Yang EH, Marmagkiolis K, **Balanescu DV**, Hakeem A, **Donisan T**, Finch W, et al. Radiation-induced vascular disease – A state-of-the-art review. *Front Cardiovasc Med.* 2021 Mar 30;8 :652761. doi:10.3389/fcvm.2021.652761. PMID:33860001.
- Yu L, **Halalau A**, Dalal B, Abbas AE, Ivascu F, Amin M, et al. Machine learning methods to predict mechanical ventilation and mortality in patients with COVID-19. *PLoS One.* 2021 Apr 1;16(4): e0249285. doi:10.1371/journal.pone.0249285. PMID:33793600.
- Zafar MR, **Mustafa SF**, Shahbaz A, Warraich S, Altaf A. Epipericardial fat necrosis: A concise review of literature. *Cureus.* 2021 Feb 3;13(2):e13106. doi:10.7759/cureus.13106. PMID:33728126.
- Zaher N, **Shereef H**, Al Hussain R, Dawdy J, Levine D, Alraies MC. Role of cardiac magnetic resonance in detecting biventricular apical hypertrophic cardiomyopathy. *Case Rep Cardiol.* 2021 Feb 9;2021: 8833216. doi:10.1155/2021/8833216. PMID:33628519.
- Zaki MM, Lesha E, Said K, Kiaee K, Robinson-McCarthy L, George H, et al, **[Hanna A]**. Cell therapy strategies for COVID-19: Current approaches and potential applications. *Sci Adv.* 2021 Aug 11;7(33):eabg5995. doi:10.1126/sciadv.abg5995. PMID:34380619.
- Zimmer M, Gill I**, Anusim N, Gaikazian SS. Epstein-Barr virus induced haemophagocytic lymphohistiocytosis. *BMJ Case Rep.* 2021 May 5;14(5):e241348. doi:10.1136.

## **Abstracts with Associated Research Presentations:**

Addoumieh A, **Balanescu D, Donisan T**, Lopez-Mattei J, Kim P, et al. Triggers and outcomes of Takotsubo cardiomyopathy in cancer patients. *J Am Coll Cardiol*. 2021 May, 77(18):3311.

**Armstrong J, Foglesong A, Halalau A, Mando R**. Acute venous thromboembolism in patients with elevated body mass index, can we prescribe direct oral anticoagulants. *Circulation*. 2021 144(Suppl 1): A10854. doi:10.1161/circ.144(Suppl 1):10854.

Bukhsh M, **Thyagarajan R**, Todd B, Chen NW, Qu L, **Swaminathan L**. An Emergency department-based response to the hepatitis A outbreak in Michigan: Improving hepatitis A vaccination rates in high-risk populations. *Ann Emerg Med*. 2021 Oct;78(Suppl 4):S106.

Chakraborty JM, Cheng X, **Galla S**, Hindupur A, Saha P, San Yeoh B, et al. Diurnal rhythm and salt responsive reshaping of gut microbiota correlates with hypertension. *Journal of Hypertension*. 2021 Apr 1;39:e76.

Cheah R, Chirnaksorn S, **Abdelrahim A**, Horgan L, Casey J, Beirne P, et al. P331 Potential perils of ineffective oesophageal motility in idiopathic pulmonary fibrosis (IPF). *Gut* 2021 Jan;70(Suppl 1):A212-A213.

Curran D, Patterson B, Carrico J, Salem A, La E, Lorenc S, et al, **[Carpenter C]**. Cost-effectiveness analysis of recombinant zoster vaccine for the prevention of herpes zoster in immunocompromised adults diagnosed with select cancers in the United States. *Am J Hematology*. 2021 Oct 1, 96(S1):S26.

Curran D, Salem A, Lorenc S, Patterson B, Carrico J, Hicks KA et al, **[Carpenter CF]**. Cost-effectiveness of recombinant zoster vaccine for vaccinating immunocompromised adults against herpes zoster in the United States, *Open Forum Infectious Diseases*. 2021 Nov, 8(S1):S134.  
<https://doi.org/10.1093/ofid/ofab466.222>

**Elhouderi E, Choucair M**, Almusawi Z, **Abdulsada S**. Doac failure to prevent ischemic stroke in atrial fibrillation patient with mitral valve stenosis. *J Am Coll Cardiol* 2021;77(18):2986.  
[https://doi.org/10.1016/S0735-1097\(21\)04341-2](https://doi.org/10.1016/S0735-1097(21)04341-2).

**Elhouderi E**, Hashim A, **Bangash R**. Arterial thrombosis in COVID 19 and antiphospholipid antibodies. *J Am Coll Cardiol*. 2021 May 11;77(18):3008. doi:10.1016/S0735-1097(21)04363-1. PMID:PMC8091378.

**Foglesong A, Armstrong J, Mando R, Halalau A**. DOAC use for stroke prevention in patients with atrial fibrillation and elevated body mass index. *Circulation* 2021;144:A8899.  
[https://doi.org/10.1161/circ.144.suppl\\_1.8899](https://doi.org/10.1161/circ.144.suppl_1.8899)

**Gill I**, Edhi A, Rana K. S3609 Dieulafoy's lesion: An unforeseen catastrophe. *Am J Gastroenterol*. 2021 Oct 1;116:S1478.

**Gill I**, Imam Z, Gomez O, Karabon P, **Halalau A**. Modified clinical risk score to predict hospital admission and in-hospital mortality in COVID-19 patients. *J Hosp Med* 2021.  
<https://shmabstracts.org/abstract/modified-clinical-risk-score-to-predict-hospital-admission-and-in-hospital-mortality-in-covid-19-patients/>

**Gill I**, Imam Z, Orosey M, Bedi DS, Al Sibae MR, Jamil L. Bile leak from the duct of Luschka following liver transplantation. *Am J Gastroenterol*. 2021;116:S1072-S1073. doi:10.14309/01.ajg.0000783708.30682.a2.

**Gill I, Shams C**, Hanna A, George J, Jamil LH, Patel A. Role of demographics in non-invasive testing for colorectal cancer screening: Do targeted cut-off values improve detection? *Am J Gastroenterol* 2021 Oct 1;116:S117.

**Gill I, Shams C**, Patel A. Propofol-induced mania during a routine colonoscopy. *Am J Gastroenterol*. 2021;116:S965. doi:10.14309/01.ajg.0000782584.90059.e8.

**Gomez Rojas OR, Gill I**, Imam Z, Karabon P, **Halalau A**. Modified clinical risk score to predict hospital admission and in-hospital mortality in COVID-19 patients. *J Gen Intern Med*. 2021 Jul 23;36(Supp 1):S94.

**Halalau A, Sonmez M**, Uddin A, Karabon P, Scherzer Z, Keeney S. Efficacy of a pharmacist-managed diabetes clinic in high-risk diabetes patients, a randomized controlled trial-"Pharm-MD". *J Gen Intern Med*. 2021 Jul 23;36(Supp 1):S19.

Imam Z, **Gill I, Antonios B**, Anees A, Kakked G, Kamal F, et al, [**Halalau A**]. Hyperlipasemia does not confer worse clinical outcomes in a retrospective cohort of novel coronavirus (COVID-19) patients. *Gastroenterology*. 2021 May;160(Suppl 6):S291-S292. PMID:PMC8108179.

**Ionescu F, Zimmer M**, Anusim N, Huben M, Ahaneku H, Stender M, et al. Trends of venous thromboembolism prophylaxis in hospitalized sickle cell patients. *Blood*. 2021 Nov 23;138(Suppl 1):3088.

**Lazar N**, Aneese A, Jamil LH. S2546 Endoscopic removal of uncovered metallic biliary stents: A case report. *Am J Gastroenterol*;2021 Oct 1;116:S1073.

Lazarczyk P, Zakaria A, **Chandra R**, Imam Z, Li W, Gamarra R. Hiding in plain sight: A challenging case of obscure GI bleeding due to appendiceal endometriosis in a postmenopausal female patient. *Am J Gastroenterol* 2021 Oct;116:S1002.

**Leong R, Rodd C, Gomes KM, Savedchuk S**, Kellerman PS. Diagnosis of early delayed graft function (DGF) using TIMP-2\*IGFPB-7 product in transplant recipients: Preliminary results. *J Am Soc Nephrol*. 2021;32(Suppl 2):670-671.

**Madanat L**, Shah K, Haines D, Mehta N. High burden of sensing changes in periprocedural TAVR patients with pre-existing CIEDs presents a unique challenge. *Circulation* 2021 Nov 16;144(Suppl 1):A13691.

Mando R, **Michel A**, Waheed M, Karabon P, **Halalau A**. Is prediabetes too late: Normalization of hemoglobin A1C in prediabetes is not associated with improved outcomes. *JACC* 2021 May 11;77(18 Suppl 1):1603.

Merza N, Alhatemi G, Prakash S, **Shaeli M**, Mansi T, Yousuf H, et al. S14 Trends in pancreatic cancer, 2004-2014 Nationwide Inpatient Retrospective cohort study. *Am J Gastroenterol* 2021 Oct 1;116:S6.

Merza N, Prakash S, Rutledge BP, Al-Sagri Z, **Shaeli M**, Mansi T, et al. S3663 A unique presentation of gangrenous gallbladder with liver abscess formation. *Am J Gastroenterol* 2021 Oct 1;116:S1496.

Merza N, Rutledge BP, Al-Hillan A, **Shaeli M**, Saadaldin M, Naguib T. S613 Colonoscopy adverse events in urban versus rural hospitals: Retrospective cohort analysis from nationwide data. *Am J Gastroenterol* 2021 Oct 1;116:S278.

Merza N, Rutledge BP, Prakash S, **Shaeli M**, Al-Hillan A, Saadaldin M, et al. S3221 Epidemiological characteristics of pancreatic cancer national admissions: Cohort study of Inpatient National Data 2004-2014. *Am J Gastroenterol* 2021 Oct 1;116:S1327.

Merza N, **Shaeli M**, Yousuf H, Saadaldin M, Naguib T. S404 Eosinophilic esophagitis national trends: 2004-2014 NIS Data retrospective cohort analysis. *Am J Gastroenterol* 2021 Oct 1;116:S179.

**Michel A**, Mando R, Waheed MA, **Halalau A**, Karabon P. Prediabetes associated with an increase in major adverse cardiovascular events. *JACC*. 2021, May 11, 77(18 Suppl 2):14.

Nair GB, Al-Katib S, Turner-Lawrence D, **Ionescu F**, Galban CJ, Van den Berge M, et al. A comparative study of ventilation perfusion mismatch derived from non-contrast CT scans in hospitalized COVID-19 patients. *Am J Respir Crit Care Med* 2021;203:A4467.

**O'Connor D**, Dalal B. Unexpected findings in dynamic vs baseline procalcitonin in obese patients. *Chest*. 2021 Oct;160(4 S):A1052. doi:10.1016/j.chest.2021.07.975.

**O'Connor D**. Central apnea secondary to disseminated histoplasmosis. *Chest*. 2021 Oct;160(4Snt):A325. doi:10.1016/j.chest.2021.07.328.

**Pandey S**, Amin M, Cappell M. Metastasis of solitary fibrous tumor to the peripancreatic area causing pancreatitis. *Am J Gastroenterol*. 2021;116:S754. doi:10.14309/01.ajg.0000780300.44703.3c.

Pattupara A, **Aggarwal D**, Bhatia KS, **Gomez-Rojas O**, Jain V et al. Survival after in-hospital cardiopulmonary resuscitation for cardiac arrest in patients with COVID-19: An updated meta-analysis. *Circulation* 2021 Nov16;144(Suppl 2):A13013. doi:10.1161/circ.144.(Suppl 2):13013.

**Sardarli K, Leong R, Gill I, Zarouk SS**. A patient with combined metformin-induced lactic acidosis and euglycemic diabetic ketoacidosis. *J Am Soc Nephrol*. 2021;32(Suppl 2):384.

**Tennant T, Pandey S**, Edhi A, Batke M. Esophageal stricture caused by cytomegalovirus in a renal transplant patient not infected by human immune deficiency virus. *Am J Gastroenterol*. 2021;116:S889. doi:10.14309/01.ajg.0000781744.24356.b5.

Yousuf H, Merza N, Rutledge BP, Al-Sagri Z, **Shaeli M**, Saadaldin M, et al. S3552 A Unique presentation of esophageal cancer as a mysterious analgesic-refractory chest pain. *Am J Gastroenterol* 2021 Oct 1;116:S1457-8.

### **Invited Research Presentations:**

**Antonios B**, Gupta R, Anusim N, **Zimmer M, Herrman E**, Jaiyesimi I. "NUT" an anatomical malignancy! A solid tumor characterized by a genetic translocation. American College of Physicians-Michigan, 2021 Michigan Chapter Residents/Medical Student Day. 2021 May 7. Virtual.

**Antonios B, Zimmer M, Herrman E**, Shrotriya S, Jaiyesimi I. Very late relapse of Hodgkin lymphoma 18 years after remission. American College of Physicians-Michigan, 2021 Michigan Chapter Residents/Medical Student Day. 2021 May 7. Virtual.

**Barnes M**. Hot topics in ambulatory medicine. Beaumont Practical and Progressive Updates in Primary Care Medicine, 2021 Apr 15-May 23. Virtual.

**Chopra K, Owusu-Asare C, Espinosa A, Halalau A**. Diabetic preventative care in a resident clinic: A quality improvement study. American College of Physicians-Michigan. 2021 Oct 14-17. Virtual.

**DeMarco C.** Tickborne diseases. Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, Michigan. 2021 Jul 7.

**Elteriefi R. Hamed NA. Rahal ON. Musa F.** A novel combination chemotherapy targeting extramedullary disease in multiple myeloma following first-line treatment failure. American College of Physicians-Michigan. 2021 Oct 14-17. Virtual.

**Espinosa A.** Updates in Cancer Screening. Beaumont Practical and Progressive Updates in Primary Care Medicine, 2021 Apr 15-May 23. Virtual.

**Faieta A, Tawhida K.** Type I cryoglobulinemia secondary to primary plasma cell leukemia. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.

Fawaz L, **Afonso N.** A look into medical students' knowledge on adverse childhood experiences. The 10th Annual Oakland University William Beaumont School of Medicine Davidson Medical Education Week, 2021 May 17-21. Virtual.

**Foglesong A, Kara Balla A, Biloliar AN.** A broken heart: A case of stress induced cardiomyopathy precipitated by community acquired pneumonia. American College of Physicians-Michigan, 2021 Michigan Chapter Residents/Medical Student Day. 2021 May 7. Virtual.

**Ghimire B, Jameel O, Khanal S, Owen R, Pokharel A, Pandey S.** Potts puffy tumor: A rare complication of rhinosinusitis. American College of Physicians-Michigan, 2021 Michigan Chapter Residents/Medical Student Day. 2021 May 7. Virtual.

**Ghimire B, Pandey S, Pokhare A, Herrmann E,** Chisti MM. Refractory non-tumor Lambert Eaton syndrome treated with rituximab. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.

**Giovanatti A,** Elassar H, Karabon P, Wunderlich-Barillas T, **Halalau A.** Social determinants of health correlating with mechanical ventilation of COVID-19 patients: A multi-center observational study. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.

**Herrmann E, Zimmer M, Antonios B, Ghimire B,** Chisti MM. Granular cell tumor of the breast: A breast malignancy mimicker. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.

**Karki U, Thapa B, Niroula S, Ghimire B, Billups T, Thapa S.** Intracardiac leiomyomatosis presenting as syncope. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.

**Karmo D.** Post-hospitalization care of the COVID patient. Beaumont Practical and Progressive Updates in Primary Care Medicine, 2021 Apr 15-May 23. Virtual.

**Kelekar A, Afonso N,** Lucia V, Mascarenhas AK. Covid-19 vaccine hesitancy among medical and dental students. The 10th Annual Oakland University William Beaumont School of Medicine Davidson Medical Education Week, 2021 May 17-21. Virtual.

**Lazar N, Niculescu O, Lima C,** Lima N. Gallstone ileus complicating rectal cancer: A red herring cause of abdominal pain. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.



**Lerman R, Davila H.** Mindfulness: Hype? Hope? Happiness? The facts for your patients and you. Pediatrics Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, Michigan. 2021 Dec 14.

**Maddens N.** The future of telehealth. Beaumont Health Symposium for Primary Care Medicine 2021, 2021 Nov 5-6. Virtual.

**O'Connor D,** Mina N, Iftikhar H. Synergistic bleomycin toxicity and EVALI: A lethal combination. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.

**Pandey S, Ghimire B, Herrmann E, Khanal D.** Massive pulmonary embolism after Pfizer vaccine. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.

**Pandey S, Sardarli K, Franklin C, Pokhrel A, Khanal S, Ghimire B,** et al, **[Momin FA].** Immune thrombocytopenia in COVID pneumonia: A case report of the oldest patient. American College of Physicians-Michigan, 2021 Michigan Chapter Residents/Medical Student Day. 2021 May 7. Virtual.

Parry N, **Ahmed R, Maheshwari N, Khatoon T.** Anticoagulation in patients with mechanical heart valves. The American Society of Anesthesiology Annual Meeting, 2021 Oct 8-12, San Diego, CA. <https://www.abstractsonline.com/pp8/#!/9323/presentation/5304>

**Pokharel A, Khanal P, Khanal D, Pandey S, Ghimire B.** Rare case of recurrent hyperhemolysis syndrome (HHS) and methemoglobinemia in a patient with sickle cell. American College of Physicians-Michigan, 2021 Michigan Chapter Residents/Medical Student Day. 2021 May 7. Virtual.

**Rodd C, Leong R, Gomes K.** The effectiveness of the nephrocheck biomarker in the early diagnosis of post-transplant acute kidney injury (delayed graft function), and long-term kidney function post-transplant. Southeast Michigan Center for Medical Education. 43rd Annual Research Forum. May 26, 2026. Virtual.

**Sager M. Aggarwal D.** Late onset Burkitt transplant lymphoproliferative disorder (PTLD) following solid organ transplant. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.

**Sardarli K, Leong R,** Weatherhead M, Dalal B. Acute renal failure and an acid-base dilemma. American College of Physicians-Michigan, 2021 Michigan Chapter Residents/Medical Student Day. 2021 May 7. Virtual.

**Sardarli K, Reinhold L, Arora A, Khanal S, Kaminoulu P, Halalau A.** Improving telemetry utilization in an inpatient hospital setting. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.

**Yedavally-Yellayi S, Kinaya N, Lucky C.** End of life / palliative care +. Beaumont Practical and Progressive Updates in Primary Care Medicine, 2021 Apr 15-May 23. Virtual.

**Zimmer M, Antonios B, Herrmann E, Berghea R.** Metronidazole neurotoxicity--not your usual suspect. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.

### **Non-Peer Reviewed Research Publications**

**Mehta N, Mandanat L.** Cardiac device pocket hematomas: The feared top risk factor for device infections. DocWire News. 2021 Aug 16, <https://www.docwirenews.com/cardiology/columns/cardiac-device-pocket-hematomas-the-feared-top-risk-factor-for-device-infections/>

# GERIATRICS

## Peer Reviewed Articles:

Bahado-Singh RO, Vishweswaraiah S, Aydas B, Yilmaz A, Metpally RP, Carey DJ, et al, **[Imam K, Maddens M]**. Artificial intelligence and leukocyte epigenomics: Evaluation and prediction of late-onset Alzheimer's disease. PLoS One. 2021 Mar 31;16(3):e0248375. doi:10.1371/journal.pone.0248375. PMID:33788842.

Saeed N, Glass LM, Habbal H, Mahmood A, **Sengstock D**, Saini SD et al. Primary care and referring physician perspectives on non-alcoholic fatty liver disease management: A nationwide survey. Therap Adv Gastroenterol. 2021 Sep 20;14:17562848211042200. doi:10.1177/17562848211042200. PMID:34567270.

## Invited Research Presentations:

**Leamon G**. Elder care in the Navajo population. Medical Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. Jun 16, 2021.

**Muckey B**. Stroke and delirium. Beaumont Health On Demand Series. Sept 17, 2021. Virtual.

# HEMATOLOGY/ONCOLOGY

## Peer Reviewed Articles:

**Ahaneku H, Gupta R, Anusim N, Umeh CA, Anderson J, Jaiyesimi I.** Leucocytoclastic vasculitis, cryoglobulinemia, or plasma cell leukemia: A diagnostic conundrum. *Cureus*. 2021 Aug 2;13(8):e16832. doi:10.7759/cureus.16832. PMID:34513422.

**Al-Banaa K, Alshaikhli A, Al-Hareeri A, Abdelhalim M, Al-Hillan A, Joshi T.** Arterial dissection in antiphospholipid syndrome patients: Two case reports and a literature review. *Eur J Case Rep Intern Med*. 2021 May 24;8(5):002610. doi:10.12890/2021\_002610. PMID:34123952..

**Al-Banaa K, Gallastegui-Crestani N, von Drygalski A.** Anticoagulation for stroke prevention after restoration of haemostasis with emicizumab in acquired haemophilia A. *Eur J Case Rep Intern Med*. 2021 Nov 11;8(11):002984. doi:10.12890/2021\_002984. PMID:34912741.

**Alhasson H, Al-Banaa K, Abu-Tineh M, Alhasson B, Zhao Y, Yassin MA.** Venous thromboembolism in hospitalized melanoma patients: Analysis from the National Inpatient Sample Database. *Int J Gen Med*. 2021 Nov 9;14:7855-7860. doi:10.2147/IJGM.S320507. PMID:34795506.

**Anusim N, Douglas-Nikitin V, Jaiyesimi I.** Pernicious anemia presenting as pancytopenia. *eJHaem*. 2021 Nov;2(4):861-2.

**Anusim N, Gbadebo D, Afolayan-Oloye, O, Jaiyesimi I.** Durable remission with immunotherapy in a patient with sarcomatoid renal cell carcinoma. *J Kidney Cancer VHL*. 2021 Oct 26;8(4):38-42. doi:10.15586/jkcvhl.v8i4.168. PMID:34765405.

**Anusim N, Gupta A, Howard G, Jaiyesimi I.** Extranodal blastoid/pleomorphic variant of mantle cell lymphoma involving the testis and skin. *BMJ Case Rep*. 2021 Jan 28;14(1):e239014. doi:10.

**Anusim N, Gupta R, Ahaneku H, Franklin C, Balaraman S, Huben M, et al, [Jaiyesimi I].** Presentation, management, and outcomes of COVID-19 in patients with sickle cell disease. *eJHaem*. 2021 Feb;2(1):124-127. doi:10.1002/jha2.162. PMID:33821259.

**Davoodian A, Umeh C, Novatcheva E, Sassi GP, Ahaneku H, Kundu A.** Severe immune thrombocytopenia post-COVID-19: A case report. *Cureus*. 2021 Nov 13;13(11):e19544. doi:10.7759/cureus.19544. PMID:34934562.

**Dekhou A, Rehman R, Parzen JS, Quinn TJ, Zhang PL, Rontal M, et al, [Tapia M].** Primary parotid tumor thrombosis: Immunohistologic features and awareness of metastatic potential. *Cureus*. 2021 Jul 4;13(7):e16174. doi:10.7759/cureus.16174. PMID:34367782.

**Evans DG, Phillips KA, Milne RL, Fruscio R, Cybulski C, Gronwald J, et al, [Zakalik D].** Survival from breast cancer in women with a BRCA2 mutation by treatment. *Br J Cancer*. 2021 Apr;124(9):1524-1532. doi:10.1038/s41416-020-01164-1. PMID:33597716.

**Fotheringham S, Karabon P, Wunderlich-Barillas T, Traynor J, Gowans K.** Optimization of school reintegration for pediatric oncology patients and their peers. *Continuity in Education* 2021;2(1):60-72. doi:10.5334/cie.27

**Gill I, Shams C, Quiroz E, Krishnan SM, Gaikazian S.** Large cell neuroendocrine tumor of the gastrointestinal tract with concurrent tubular adenomas. *Gazz Med Ital Arch Sci Med*. 2021 Sept;180(9):498-502. doi:10.23736/S0393-3660.20.04399-5.

Grzywacz V, Quinn TJ, Wilson T, Reitemeier P, Navin M, Hamstra D, et al, **[Anderson J]**. Ethical allocation of proton therapy and the insurance review process. *Pract Radiat Oncol*. 2021 Sep-Oct 11(5):e449-e458. doi:10.1016/j.ppro.2021.01.007. PMID:33548544.

**Gupta R**, Madanat L, **Jindal V**, **Gaikazian S**. Celiac plexus block complications: A case report and review of the literature. *J Palliat Med*. 2021 Sep;24(9):1409-1412. doi:10.1089.

**Gupta R**, Singh S, **Anusim N**, Gupta S, Gupta S, **Huben M**, et al, **[Howard G, Jaiyesimi I]**. Coronavirus disease 2019 and Cold Agglutinin Syndrome: An interesting case. *Eur J Case Rep Intern Med*. 2021 Mar 10;8(3):002387. doi:10.12890/2021\_002387. PMID:33987115.

**Gupta R**, Smalley M, **Anusim N**, **Jindal V**, Singh Rahi M, Gupta S, Gupta S, **Jaiyesimi I**. Paradigm shift in the management of metastatic non-small cell lung cancer. *Int J Clin Pract*. 2021 Nov;75(11):e14533. doi:10.1111/ijcp.14533. PMID:34129744.

Hanna NH, Robinson AG, Temin S, Baker S Jr, Brahmer JR, Ellis PM, et al, **[Jaiyesimi J]**. Therapy for stage IV non-small-cell lung cancer with driver alterations: ASCO and OH (CCO) Joint Guideline update. *J Clin Oncol*. 2021 Mar 20;39(9):1040-1091. doi:10.1200/JCO.20.03570 PMID:33591844.

Heuvelhorst KL, Diener T, Manzoor H, Khadra M, **Musa F**, Jafri SK. Cerebral venous sinus thrombosis without thrombotic thrombocytopenic syndrome in a male patient after Ad26. COV2. S vaccination. *American Journal of Medical Case Reports*. 2021;9(12):719-21.

Ionescu F, **Anusim N**, Ma E, Qu L, **Blankenship LM**, **Stender M** et al, **[Jaiyesimi I]**. Inferior vena cava filter retrieval trends: A single-center experience. *TH Open*. 2021 Feb 10;5(1):e73-e80. doi:10.1055/s-0040-1722707. PMID:33585788.

Ionescu F, **Jaiyesimi I**, Petrescu I, Lawler PR, Castillo E, **Munoz-Maldonado Y** et al, **[Konde A]**. Association of anticoagulation dose and survival in hospitalized COVID-19 patients: A retrospective propensity score-weighted analysis. *Eur J Haematol*. 2021 Feb;106(2):165-174. doi:10.1111/ejh.13533. PMID:33043484.

Madanat L, Schoenherr D, Wey E, **Gupta R**. Rasburicase-induced haemolysis and methemoglobinemia: An ongoing issue. *BMJ Case Rep*. 2021 Mar 16;14(3):e240967. doi:10.1136.

Mahmood R, **Al Banaa K**, Ibrahim I, Hashim A, Torregrosa L. Sarcoidosis vs. colon cancer metastasis: Diagnostic dilemma and the role of PET scan in monitoring disease activity. *Case Rep Rheumatol*. 2021 Apr 20 , 2021:5529523. doi:10.1155/2021/5529523. PMID:34258100.

Pond GR, Agarwal A, Ornstein M, Garcia J, **Gupta R**, Grivas P et al. Clinical outcomes of platinum-ineligible patients with advanced urothelial carcinoma treated with first-line PD1/L1 inhibitors. *Clin Genitourin Cancer*. 2021 Oct;19(5):425-433. doi:10.1016/j.clgc.2021.04.008. PMID:34006497.

Rahi MS, **Jindal V**, Pednekar P, Parekh J, Gunasekaran K, Sharma S et al, **[Stender M, Jaiyesimi IA]**. Fungal infections in hematopoietic stem-cell transplant patients: A review of epidemiology, diagnosis, and management. *Ther Adv Infect Dis*. 2021 Aug 19, 8:20499361211039050. doi:10.1177/20499361211039050. PMID:34434551.

Rahi MS, **Jindal V**, Reyes SP, Gunasekaran K, **Gupta R**, **Jaiyesimi I**. Hematologic disorders associated with COVID-19: A review. *Ann Hematol*. 2021 Feb;100(2):309-320. doi:10.1007/s00277-020-04366-y. PMID:33415422.

Rehman R, Saadat SB, Tran DH, Constantinescu S, **Qamruzzaman Y**. Recurrent hyperhemolysis syndrome in sickle cell disease. *Cureus*. 2021 May 12;13(5):e14991. doi:10.7759/cureus.14991. PMID:34131536.

Roskos SE, Fitzpatrick L, Arnetz B, Arnetz J, **Shrotriya S**, Hengstebeck E. Complex patients' effect on family physicians: High cognitive load and negative emotional impact. *Fam Pract*. 2021 Jul 28;38(4):454-459. doi:10.1093/fampra/cmaa137. PMID:33367637.

Sahu KK, Mishra AK, **Jindal V**, Siddiqui AD, George SV. To study the contributing factors and outcomes of *Clostridioides difficile* infection in patients with solid tumors. *Heliyon*. 2021 Nov 26;7(12):e08450. doi:10.1016/j.heliyon.2021.e08450. PMID:34926847.

Salita A, Rosado M, Mack K, Pui J, **Zekman R**, Dinnan K. Metastatic lobular carcinoma of the breast found incidentally on pathology following cholecystectomy for chronic cholecystitis: A case report. *Int J Surg Case Rep*. 2021 Mar;80:105612. doi:10.1016/j.ijscr.2021.01.106. PMID:33636408.

Santomasso BD, Nastoupil LJ, Adkins S, Lacchetti C, Schneider BJ, Anadkat M, et al, **[Jaiyesimi IA]**. Management of immune-related adverse events in patients treated with chimeric antigen receptor T-cell therapy: ASCO guideline. *J Clin Oncol*. 2021 Dec 10;39(35):3978-3992. doi:10.1200/JCO.21.01992. Erratum in: *J Clin Oncol*. 2022 Mar 10;40(8):919. PMID:34724386.

Schneider BJ, Naidoo J, Santomaso BD, Lacchetti C, Adkins S, Anadkat M, et al, **[Jaiyesimi IA]**. Management of immune-related adverse events in patients treated with immune checkpoint inhibitor therapy: ASCO guideline update. *J Clin Oncol*. 2021 Dec 20;39(36):4073-4126. doi:10.1200/JCO.21.01440.

Snajdar E, Ajo AR, Rosen K, Miller R, Mohammed S, **Gordon C** et al. Primary malignant melanoma of the urinary bladder. *Cureus*. 2021 Mar 23;13(3):e14067. doi:10.7759/cureus.14067. PMID:33898150.

Solano C, Thapa S, **Chisti MM**. Adult Xp11.2 translocation renal cell carcinoma managed effectively with pazopanib. *BMJ Case Rep*. 2021 Jun 25;14(6):e243058. doi:10.1136/bcr-2021-243058. PMID:34172479.

Tung NM, **Zakalik D**, Somerfield MR, Hereditary Breast Cancer Guideline Expert Panel. Adjuvant PARP inhibitors in patients with high-risk early-stage HER2-negative breast cancer and germline BRCA mutations: ASCO Hereditary Breast Cancer Guideline Rapid Recommendation Update. *J Clin Oncol*. 2021 Sep 10;39(26):2959-2961. doi:10.1200/JCO.21.01532. PMID:34343058.

Umeh CA, Kumar S, Carvalho J, Arcuri C, **Ahaneku H**, Pulumati K, et al. Vancomycin induced thrombocytopenia complicating permanent pacemaker placement: A case report. *Am J Med Case Rep*. 2021;9(7):360-362.

Zimmer M, Gill I, **Anusim N**, **Gaikazian SS**. Epstein-Barr virus induced haemophagocytic lymphohistiocytosis. *BMJ Case Rep*. 2021 May 5;14(5):e241348. doi:10.1136.

#### **Abstracts with Associated Research Publications:**

Afghani A, Marsh S, Winchester A, Gao D, Parris H, Axell L, et al, **[Zahalik D]**. Twenty-one-gene recurrence score (RS) in germline (g)CHEK2 mutation-associated versus sporadic breast cancers (BC): A multi-site case-control study. *J Clin Oncol*. 2021 May 20;39 (Suppl 15):10531. doi:10.1200/JCO.2021.39(Suppl 15):10531

Al-Hillan A, Alshami A, Mohamed M, Alkhero M, Hawa FN, **Al-Banaa K**, et al. Sa318 Clinical and epidemiological characteristics of acute liver failure due to hepatitis B: Analysis study of National Inpatient Sample. Gastroenterology. 2021 May 1;160(6):S-823.

Danciu OC, Hoskins K, Truica CI, Blaes AH, Tamkus D, **Rana J**, et al. A single-arm phase II trial of palbociclib in combination with tamoxifen as first-line therapy for metastatic hormone receptor-positive breast cancer. J Clin Oncol 2021 May 20;39(Suppl 15):1056.

[https://ascopubs.org/doi/abs/10.1200/JCO.2021.39.15\\_suppl.1056](https://ascopubs.org/doi/abs/10.1200/JCO.2021.39.15_suppl.1056)

Fotheringham S, Karabon P, Wunderlich-Barillas T, **Traynor J, Gowans K**. Optimization of school reintegration for pediatric oncology patients and their peers. Pediatr Blood Cancer 2021 Jun;68:S101–S102.

Ionescu F, Zimmer M, **Anusim N, Huben M, Ahaneku H, Stender M**, et al, [**Jaiyesimi I**]. Trends of venous thromboembolism prophylaxis in hospitalized sickle cell patients. Blood. 2021 Nov 23;138 (Suppl. 1):3088.

**Jindal V, Gupta R**, Sahu KK, Rahi MS, Stender M, Jaiyesimi IA. Doublet (FOLFOX or FOLFIRI) versus triplet (FOLFOXIRI) backbone chemotherapy regimen as first-line treatment of metastatic colorectal cancer: A meta-analysis and systematic review. J Clin Oncol. 2021 May 20;39(Suppl. 1):3593.

Kim K, **Ahaneku H**, McCue D, Adachi JA, Ferrajoli A. Efficacy of hyperbaric oxygen therapy in hematologic malignancy patients: A single comprehensive cancer center retrospective review of 50 patients. Clin Lymphoma Myeloma Leuk. 2021 Sept;21(Suppl 1):S310.

Ma X, Gao Y, Mohapatra G, Coleman L, Simons Y, Truica CI, et al, [**Rana J**]. Deep proteomic analysis of plasma exosomes in patients with advanced, hormone receptor-positive breast cancer treated with palbociclib and tamoxifen. J Clin Oncol 2021;39(15):1030.

**Majmudar G, Ivan K**, Rangarajan T, **Zakalik D**. Improved universal tumor screening program with paired testing: Experience at a large community-based teaching hospital. J Clin Oncol. 2021;39(15 Suppl. 1):e22505.

Poston JN, **Al-Banaa K**, von Drygalski A, Parnes AD, Walsh CE, Wu JF, et al. Eficizumab for the treatment of acquired hemophilia a: A multicenter US case series. Blood. 2021 Nov 23;138(Suppl. 1):496.

Zureick AH, **Zakalik D**, Rangarajan TS, Quinn TJ, Chen PY, Dilworth JT. Breast irradiation is well tolerated in carriers of a pathogenic ATM variant. Int J Radiat Oncol Biol Phys 2021 Nov 1;111(3):e227.

### **Invited Research Presentations:**

Antonios B, **Gupta R, Anusim N**, Zimmer M, Herrman E, **Jaiyesimi I**. "NUT" an anatomical malignancy! A solid tumor characterized by a genetic translocation. American College of Physicians-Michigan, 2021 Michigan Chapter Residents/Medical Student Day. 2021 May 7. Virtual.

Antonios B, Zimmer M, Herrman E, **Shrotriya S, Jaiyesimi I**. Very late relapse of Hodgkin lymphoma 18 years after remission. American College of Physicians-Michigan, 2021 Michigan Chapter Residents/Medical Student Day. 2021 May 7. Virtual.

Elteriefi R, Hamed NA, Rahal ON, **Musa F**. A novel combination chemotherapy targeting extramedullary disease in multiple myeloma following first-line treatment failure. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.

Ghimire B, Pandey S, Pokhare A, Herrmann E, **Chisti MM**. Refractory non-tumor Lambert Eaton syndrome treated with rituximab. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.

Shetty Z, Amin M, **Balaraman S**, Shetty S. A unique case of renal pelvic urothelial carcinoma with extensive small round cell sarcoma differentiation showing EWSR1 gene rearrangement. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL.

#### **Non-Peer Reviewed Research Publications:**

**Chisti MM**. B-Cell lymphoma. Medscape. 2021 Apr 27.

<https://emedicine.medscape.com/article/202677-overview#a1>

**Chisti MM**. Esophageal cancer treatment protocols. Medscape. 2021 Aug 16.

<https://emedicine.medscape.com/article/2003297-overview>

**Chisti MM**. Gastric cancer treatment protocols. Medscape. 2021 Apr 26.

<https://emedicine.medscape.com/article/2005831-overview>

**Chisti MM**. Hepatocellular carcinoma treatment protocols. Medscape. 2021 Feb 3.

<https://emedicine.medscape.com/article/2006744-overview>

**Chisti MM**. Protein S deficiency. Medscape. 2021 Jan 3.

<https://emedicine.medscape.com/article/205582-overview>

# INFECTIOUS DISEASES

## Peer Reviewed Articles:

Burwick RM, Yawetz S, Stephenson KE, Collier AY, Sen P, Blackburn BG, et al, [**Big C, Sims MD**]. Compassionate use of remdesivir in pregnant women with severe Coronavirus Disease 2019. *Clin Infect Dis*. 2021 Dec 6;73(11):e3996-e4004. doi:10.1093/cid/ciaa1466. PMID:33031500.

Ezeokoli EU, Polat MU, **Ogundipe O, Szela J**. A case of *Pseudomonas mendocina* bacteremia in an elderly man with bilateral leg lesions. *Cureus*. 2021 Sep 6;13(9):e17777. doi:10.7759/cureus.17777. PMID:34659988.

Falsey AR, Sobieszczyk ME, Hirsch I, Sproule S, Robb ML, Corey L, et al, [**Sims MD**]. Phase 3 safety and efficacy of AZD1222 (ChAdOx1 nCoV-19) Covid-19 vaccine. *N Engl J Med*. 2021 Dec 16;385(25):2348-2360. doi:10.1056/NEJMoa2105290. PMID:34587382.

Gil RM, Freeman TL, **Mathew T**, Kullar R, Fekete T, Ovalle A, et al. Corrigendum to: Lesbian, gay, bisexual, transgender, and queer (LGBTQ+) communities and the Coronavirus Disease 2019 pandemic: A call to break the cycle of structural barriers. *J Infect Dis*. 2021 Dec 1;224(11):1990-1992. doi:10.1093/infdis/jiab408. Erratum for: *J Infect Dis*. 2021 Dec 1;224(11):1810-1820. PMID:34758068.

Gil RM, Freeman TL, **Mathew T**, Kullar R, Fekete T, Ovalle A, et al. Lesbian, gay, bisexual, transgender, and queer (LGBTQ+) communities and the Coronavirus Disease 2019 pandemic: A call to break the cycle of structural Barriers. *J Infect Dis*. 2021 Dec 1;224(11):1810-1820. doi:10.1093/infdis/jiab392. Erratum in: *J Infect Dis*. 2021 Nov 10:PMID:34323998.

Halalau A, Halalau M, **Carpenter C**, Abbas AE, **Sims M**. Vestibular neuritis caused by severe acute respiratory syndrome coronavirus 2 infection diagnosed by serology: Case report. *SAGE Open Med Case Rep*. 2021 May 13, 9:2050313X211013261. doi:10.1177/2050313X211013261. PMID:34035914.

Halalau A, Imam Z, Karabon P, Mankuzhy N, Shaheen A, Tu J, et al, [**Carpenter C**]. External validation of a clinical risk score to predict hospital admission and in-hospital mortality in COVID-19 patients. *Ann Med*. 2021 Dec;53(1):78-86. doi:10.1080/07853890.

Halalau A, Odish F, Imam Z, Sharrak A, Brickner E, Lee PB et al, [**Carpenter CF**]. Epidemiology, clinical characteristics, and outcomes of a large cohort of COVID-19 outpatients in Michigan. *Int J Gen Med*. 2021 Apr 28;14:1555-1563. doi:10.2147/IJGM.S305295. PMID:33953603.

Hashim A, Mahmood R, Ghandour M, Shereef H, ELJack A, **Big C**, et al. Sternoclavicular joint abscess necessitating empyema: Four ED visits in six days. *American Journal of Medical Case Reports* 2021;9(5):281-5.

Klein M, Bacher J, Barth S, Atrzadeh F, Siebenhaller K, Ferreira I, et al, [**Sims MD**]. Multicenter evaluation of the Unyvero platform for testing bronchoalveolar lavage fluid. *J Clin Microbiol*. 2021 Feb 18;59(3):e02497-20. doi:10.1128/JCM.02497-20. PMID:33328178.

Lodise TP, Van Wart S, Sund ZM, Bressler AM, Khan A, Makley AT, et al, [**Sims MD**]. Pharmacokinetic and pharmacodynamic profiling of minocycline for injection following a single infusion in critically ill adults in a phase IV open-label multicenter study (ACUMIN). *Antimicrob Agents Chemother*. 2021 Feb 17;65(3):e01809-20. doi:10.1128/AAC.01809-20. PMID:33168615.



Madanat L, Bloomingdale R, Shah K, **Khalife A**, Haines DE, Mehta NK. Left atrial appendage occlusion device infection: Take it or leave it? *HeartRhythm Case Rep*. 2021 Aug 21;7(11):750-753. doi:10.1016/j.hrcr.2021.08.006. PMID:34820273.

Madanat L, **Khalife A**, **Sims M**. Asystole during nasopharyngeal swab: Is COVID-19 to blame? *Cureus*. 2021 Jun 4;13(6):e15448. doi:10.7759/cureus.15448. PMID:34249579.

Peterson EL, **Chittick PJ**, Richardson CL. Decreasing voriconazole requirement in a patient after extracorporeal membrane oxygenation discontinuation: A case report. *Transpl Infect Dis*. 2021 Jun;23(3):e13545. doi:10.1111/tid.13545. PMID:33316840.

Schaffzin JK, Murthy ARK, Deloney VM, **Mathew T**, Pettigrew E, Pettis AM, et al. A guide to implementing COVID-19 vaccine as a condition of employment in healthcare facilities. *Infect Control Hosp Epidemiol*. 2021 Sep 20:1-2. doi:10.1017/ice.2021.405. PMID:34538288.

**Sims MD**, Maine GN, Childers KL, Podolsky RH, Voss DR, Berkiw-Scenna N, et al. Coronavirus disease 2019 (COVID-19) seropositivity and asymptomatic rates in healthcare workers are associated with job function and masking. *Clin Infect Dis*. 2021 Jul 30;73(Suppl 2):154-S162. doi:10.1093/cid/ciaa1684. PMID:33150375.

**Sims M**, Podolsky RH, Maine GN, Kennedy RH, Homayouni R, et al. *Clin Infect Dis*. 2021 Dec 6;73(11):2149-2150. doi:10.1093/cid/ciab258. PMID:33754636.

Weber DJ, Talbot TR, Weinmann A, **Mathew T**, Heil E, Stenehjem E, et al. Policy statement from the Society for Healthcare Epidemiology of America (SHEA): Only medical contraindications should be accepted as a reason for not receiving all routine immunizations as recommended by the Centers for Disease Control and Prevention. *Infect Control Hosp Epidemiol*. 2021 Jan;42(1):1-5. doi:10.1017.

### **Abstracts with Associated Research Publications:**

Cohen SH, Louie T, **Sims MD**, Pullman J, Wang E, Wu H, et al. Investigational microbiome therapeutic SER-109 reduces recurrence of *Clostridioides difficile* infection (CDI) compared to placebo, regardless of risk factors for recurrence. *Open Forum Infect Dis*. 2021 Nov;8(Suppl 1):S420.

Curran D, Patterson B, Carrico J, Salem A, La E, Lorenc S, et al, **[Carpenter C]**. Cost-effectiveness analysis of recombinant zoster vaccine for the prevention of herpes zoster in immunocompromised adults diagnosed with select cancers in the United States. *Am J Hematol* 2021 Oct 1, 96(S1):26.

Curran D, Salem A, Lorenc S, Patterson B, Carrico J, Hicks KA et al, **[Carpenter CF]**. Cost-effectiveness of recombinant zoster vaccine for vaccinating immunocompromised adults against herpes zoster in the United States. *Open Forum Infectious Diseases*. 2021 Nov, 8(S1):S134.  
<https://doi.org/10.1093/ofid/ofab466.222>

Louie TJ, **Sims, MD**, Nathan R, O'Marro S, Kumar PN, Wang EE, et al. Time to recurrence of *Clostridioides difficile* infection (rCDI) is rapid following completion of standard of care antibiotics: Results from ECOSPOR-III, a phase 3 double-blind, placebo-controlled randomized trial of SER-109, an investigational microbiome therapeutic. *Open Forum Infect Dis*. 2021 Nov;8(S1):S422.

Patel M, Sudandiradas R, **Mathew T**, Kilgore P, Rao M, Mukhopadhyay C, et al. Current challenges in COVID-19 triaging: A global perspective. *Acad Emerg Med*. 2021 May;28(S1):S275.

Pogue JM, Rybak MJ, Stamper K, Marchaim D, Thamlikitkul V, Carmeli Y, et al, **[Sims M]**. Emergence of colistin resistance in the OVERCOME trial: Impact of combination therapy with meropenem. *Open Forum Infect Dis*. 2021 Nov;8(S1):S418-419.

Pogue JM, Rybak MJ, Stamper K, Marchaim D, Thamlikitkul V, et al, **[Sims M]**. The Impact of in vitro synergy between colistin and meropenem on clinical outcomes in invasive carbapenem-resistant gram-negative infections: A report from the OVERCOME trial. Open Forum Infect Dis. 2021 Nov;8(S1):S421-22.

**Sims MD**, Khanna S, Pardi D, Feuerstadt P, Berenson C, Wu H et al. Diagnostic testing among patients with suspected recurrent clostridioides difficile infection (rCDI) in ECOSPOR-III a phase 3 clinical trial: Implications for clinical practice vs clinical trials. Open Forum Infect Dis. 2021 Nov;8(Suppl 1):A431.

**Sims MD**. Kinks and quirks of research during a pandemic. Lessons Learned from the Pandemic Conference, Department of Emergency Medicine, Beaumont Hospital Royal Oak, 2021 Mar 11. Virtual. <https://beaumont.cloud-cme.com/course/courseoverview?P=1&EID=50953&IsExhibitor=false>

Straub TJ, Diao L, Ford C, **Sims MD**, Louie TJ, Berenson C et al. SER-109, an investigational microbiome therapeutic, reduces abundance of antimicrobial resistance genes in patients with recurrent Clostridioides difficile infection (rCDI) after standard-of-care antibiotics. Open Forum Infect Dis. 2021 Nov;8(Suppl 1):S812-813.

### **Invited Research Presentations:**

**DeMarco CE**. Tickborne diseases. Medical Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. Jul 7, 2021.

**Gilpin NE**. COVID updates: Detection, prevention, & more. Beaumont Practical and Progressive Updates in Primary Care Medicine, 2021 Apr 15-May 23. Virtual.

Kiel H, **Sims MD**. COVID-19 seropositivity and asymptomatic rates in healthcare workers at Beaumont. The Scottsdale Institute, 2021 Jan 21. Virtual. <https://scottsdaleinstitute.org/event/covid-19-seropositivity-and-asymptomatic-rates-in-healthcare-workers-at-beaumont/>

**Sims MD**. Infectious diseases research at Beaumont with a focus on COVID-19. The Oakland University William Beaumont School of Medicine 10th Annual William Davidson Medical Education Week. 2021 May 17-21. Virtual.

**Sims MD**. Kinks and quirks of research during a pandemic. Lessons Learned from the Pandemic Conference, Department of Emergency Medicine, Beaumont Hospital Royal Oak, 2021 Mar 11. Virtual.

**Sims MD**. Kinks and quirks of research during COVID-19. Southeast Michigan Center for Medical Education (SEMCME) Meeting, 2021 Nov 17. Virtual. <https://www.youtube.com/watch?v=fsB27HUM8ig>

**Sims MD**. SARS-CoV-2 virology and immunology. The Annual Scientific Meeting of the Michigan Chapter of the American College of Physicians. 2021, Oct 14-17. Virtual.

### **Multimedia:**

**Gilpin NE**. The back to school 2021 episode. Beaumont HouseCall Podcast. Michigan: Beaumont Health, 2021. <https://www.youtube.com/watch?v=XDwuWWST3EY>

**Gilpin NE**, Shajahan A. The COVID vaccines rollout episode. Beaumont HouseCall Podcast. Michigan: Beaumont Health, 2021. <https://www.youtube.com/watch?v=08lsukg6Cbl>

**Gilpin NE**, Shajahan A. The COVID-19 vaccine updates episode. Beaumont HouseCall Podcast. Michigan: Beaumont Health, 2021. [https://www.youtube.com/watch?v=8AdV\\_0YM2S0](https://www.youtube.com/watch?v=8AdV_0YM2S0)

**Gilpin NE**, Skrzynski JK. The COVID-19 update: Summer edition episode. Beaumont HouseCall Podcast. Michigan: Beaumont Health, 2021. [https://www.youtube.com/watch?v=Lq0\\_SpXyLow](https://www.youtube.com/watch?v=Lq0_SpXyLow)

Shajahan A, **Freij B**. The children & COVID-19 vaccines episode. Michigan: Beaumont Health, 2021. <https://www.youtube.com/watch?v=2LrLuj2Yfs0>

# NEPHROLOGY

## Peer Reviewed Articles:

Auguste B, Teakell J, Ullur AR, **Topf JM**, Hiremath S. Voclosporin for lupus nephritis: A #NephJC editorial on AURORA. *Kidney Med.* 2021 Oct 22;3(6):889-892. doi:10.1016/j.xkme.2021.10.001. PMID:34938997.

Carr EJ, Kronbichler A, Graham-Brown M, Abra G, Argyropoulos C, Harper L, et al, **[Topf J]**. Review of early immune response to SARS-CoV-2 vaccination among patients with CKD. *Kidney Int Rep* 2021;6(9):2292–304. doi:10.1016/j.ekir.2021.06.027. PMID:34250319.

Faieta A, **Dancik T**. Refractory acute interstitial nephritis in the setting of nivolumab therapy. *Case Rep Nephrol.* 2021 Mar 1, 2021:6640154. doi:10.1155/2021/6640154. PMID:33728076.

Ferrey AJ, Hanna R, Reddy UG, **Tantisattamo E**, Kalantar-Zadeh K, Amin AN. Novel therapeutic approaches for COVID-19 in chronic kidney disease and transplant. *Curr Opin Nephrol Hypertens.* 2021 Jan;30(1):47-53. doi:10.1097/MNH.0000000000000671. PMID:33186223.

**Golas VL**, Lao KM, **Misuraca MS**, Li W, Marrone MG, **Kanaan HD** et al. The clinical features of overlap syndrome (ANCA-associated crescentic glomerulonephritis [AACGN] and immune complex-mediated glomerulonephritis) are similar to those of AACGN alone. *Int Urol Nephrol.* 2021 Mar;53(3):515-521. doi:10.1007/s11255-020-02654-0. PMID:33025405.

Greenbaum LA, Jeck N, Klaus G, Fila M, Stoica C, Fathallah-Shaykh S et al, **[Wickman L]**. Safety and efficacy of sucroferric oxyhydroxide in pediatric patients with chronic kidney disease. *Pediatr Nephrol.* 2021 May;36(5):1233-1244. doi:10.1007/s00467-020-04805-y. PMID:33106892.

Ionescu F, Cooper C, Petrescu I, George J, **Mansuri S**. Safety of apixaban compared to warfarin in hemodialysis patients: Do antiplatelets make a difference? *Eur J Haematol.* 2021 May;106(5):689-696. doi:10.1111/ejh.13599. PMID:33569825.

Ionescu F, **Mansuri S**. The role of direct oral anticoagulants in advanced chronic kidney disease—questions and future directions. *Archives of Nephrology and Renal Studies.* 2021;1(1):16-20.

Kapila V, **Topf J**. Sodium-glucose Co-transporter 2 inhibitor-associated euglycemic diabetic ketoacidosis after bariatric surgery: A case and literature review. *Cureus.* 2021 Aug 11;13(8):e17093. doi:10.7759/cureus.17093. PMID:34527480.

Leong R, Rodd C, Gomes KM, Savedchuk S, **Kellerman PS**. Diagnosis of early delayed graft function (DGF) using TIMP-2\*IGFBP-7 product in transplant recipients: Preliminary results. *J Am Soc Nephrol.* 2021;32(Suppl 2):670-671.

Mahatanan R, **Tantisattamo E**, Charoenpong P, Ferrey A. Outcomes of *C difficile* infection in solid-organ transplant recipients: The National Inpatient Sample (NIS) 2015-2016. *Transpl Infect Dis.* 2021 Feb;23(1):e13459. doi:10.1111/tid.13459. PMID:32894617.

**Tantisattamo E**, Ho BT, Workeneh BT. Editorial: Metabolic changes after kidney transplantation. *Front Med (Lausanne).* 2021 Jul 8, 8:709644. doi:10.3389/fmed.2021.709644. PMID:34307432.

**Tantisattamo E**, Kalantar-Zadeh K. Editorial: Novel therapeutic approaches in chronic kidney disease, uremia and kidney transplantation: Past, present and future. *Curr Opin Nephrol Hypertens.* 2021 Jan;30(1):1-4. doi:10.1097/MNH.0000000000000677. PMID:33186225.

**Tantisattamo E**, Leventhal JR, Mathew JM, Gallon L. Chimerism and tolerance: Past, present and future strategies to prolong renal allograft survival. *Curr Opin Nephrol Hypertens*. 2021 Jan;30(1):63-74. doi:10.1097/MNH.0000000000000666. PMID:33186221.

**Tantisattamo E**, Kalantar-Zadeh K, Halleck F, Duettmann W, Naik M, Budde K. Novel approaches to sarcopenic obesity and weight management before and after kidney transplantation. *Curr Opin Nephrol Hypertens*. 2021 Jan;30(1):14-26. doi:10.1097/MNH.0000000000000673. PMID:33186218.

**Topf JM**, Williams PN. COVID-19, social media, and the role of the public physician. *Blood Purif*. 2021;50(4-5):595-601. doi:10.1159/000512707. PMID:33445176.

Trinidad CNB, Hanna MG, Ramesh S, **Topf JM**, Hiremath S. Lanthanum in dialysis, the LANDMARK trial: A #NephJC Editorial. *Kidney Med*. 2021 Dec 22;4(2):100402. doi:10.1016/j.xkme.2021.10.014. PMID:35243312.

Vanood A, Owen R, Maraskine M, Schreiber A, Pokharel R, **Cohen L**. Collapsing FSGS with concurrent class 2 and 3 lupus nephritis: A case report and review of the literature. *Case Rep Nephrol Dial*. 2021 Jan 28;11(1):16-25. doi:10.1159/000510840. PMID:33708796.

Willows J, Rydzewska-Rosółowska A, **Topf JM**, Hiremath S. CONFIRMing hepatorenal syndrome management: #NephJC editorial. *Kidney Med*. 2021 Aug 19;4(1):100352. doi:10.1016/j.xkme.2021.07.002. PMID:35072039.

Yau TT, Sparks MA, **Topf JM**. Eight years of AJKD blog-lessons learned and what lies ahead. *Am J Kidney Dis*. 2021 Aug;78(2):168-170. doi:10.1053.

### **Invited Research Presentation:**

**Swami A**. Nephrology case studies. Beaumont Health Symposium for Primary Care Medicine, 2021 Nov 5-6. Virtual.

# NEUROLOGY

## Peer Reviewed Articles:

Danoun OA, **Zillgitt A**, Hill C, Zutshi D, Harris D, Osman G, et al. Outcomes of seizures, status epilepticus, and EEG findings in critically ill patient with COVID-19. *Epilepsy Behav.* 2021 May;118:107923. doi:10.1016/j.yebeh.2021.107923. PMID:33770609.

Khatri IA, Aljwair S, Alammam H, Altariq A, Masud N, Al Malik Y, et al, [**Kojan S**]. Social anxiety and obsessive-compulsive disorder are common among persons with multiple sclerosis at King Abdulaziz Medical City, Riyadh. *Cureus.* 2021 Feb 28;13(2):e13619. doi:10.7759/cureus.13619. PMID:33816018.

**Loeffler DA.** Modifiable, non-modifiable, and clinical factors associated with progression of Alzheimer's disease. *J Alzheimers Dis.* 2021;80(1):1-27. doi:10.3233/JAD-201182. PMID:33459643.

Vanood A, Said A. Repeat intravenous r-tPA administration four days after initial thrombolytic therapy for recurrent ischemic stroke: A case report and review of literature. *Interdisciplinary Neurosurgery.* 2021 Mar 1;23:100937.

## Book Chapter or Full Book Publications:

Burdette DE, **Zillgitt A.** New frontiers in EEG: High and low frequencies, high-density EEG, digital analysis, and magnetoencephalography in Greenfield Jr LJ, Carney PR, Geyer JD, editors. *Reading EEGs: A practical approach.* Philadelphia, PA. Wolters Kluwer, 2021;345-75.

## Invited Research Presentations:

Baki N, **Serrano CA.** The state of epilepsy care: Progress & opportunities. Epilepsy Foundation of Michigan Wellness & Epilepsy Conference, 2021 Nov. <https://epilepsymichigan.org/wellness-epilepsy-conference/>

**Haykal MA.** Management of seizures: From the first seizure to refractory epilepsy. Medical Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Dec 15. Virtual.

**Menkes DL** Evoked potentials in the diagnosis of peripheral and central nervous system disorders. Pediatric Epilepsy: New and Novel Approaches. Medical Grand Rounds Lecture Presentation. Oakland University William Beaumont School of Medicine, Rochester Hills, MI. Aug 2021.

**Menkes DL.** The Guillain-Barre syndrome. University of Chicago Neurology Medical Grand Rounds. 2021 Nov 4. Virtual.

**Menkes DL.** Update on the Guillain-Barre Syndrome. Practical Approach to Electromyography and Neuromuscular Disorders Conference. Boston University School of Medicine. Boston, MA, 2021 Oct 2.

**Parres C.** Neurologic prognostication after cardiac arrest. Medical Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Aug.

**Young E.** New hope for resistant migraines. Beaumont Practical and Progressive Updates in Primary Care Medicine, 2021 Apr 15-May 23. Virtual.

**Zillgitt A.** Adult Clinical MEG Cases. American Clinical Magnetoencephalography Society Annual Course 2021. 2021 Feb. Virtual.

**Zillgitt A.** Clinical Utility of Magnetoencephalography (MEG): Standard Clinical Practice and Coherence Source Imaging. American Clinical Neurophysiology Society Annual Meeting. 2021 Feb. Virtual.

**Zillgitt A.** Comprehensive epilepsy center: Managing critical care seizures and drug resistant epilepsy. Medical Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Jul 28.

**Zillgitt A.** Managing critical care seizures and drug-resistant epilepsy. Medical Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Jul.

**Zillgitt, A.** The Most common focal epilepsies: Differentiating temporal lobe epilepsy and frontal lobe epilepsy. Michigan Society of Electrodiagnostic Technologists (MSET). Michigan. Jul 2021. Virtual.

**Zillgitt A.** Temporal lobe epilepsy: Surgical treatment options for the most common, but heterogeneous, and at times hidden, focal epilepsy. American Osteopathic Board of Neurology and Psychiatry/American Clinical Neuropsychiatrists. 2021 Jul. Virtual.

**Zillgitt A.** The utility of MEG in the epilepsy presurgical evaluation Pediatric Epilepsy: New and novel approaches. Oakland University William Beaumont School of Medicine. Rochester Hills, MI. 2021 Aug. Virtual.

# NUTRITION AND PREVENTIVE MEDICINE

## Peer Reviewed Articles:

**Bridges KM**, Newkirk M, Byham-Gray L, Chung M. Comparative effectiveness of liquid human milk fortifiers: A systematic review and meta-analysis. *Nutr Clin Pract*. 2021 Dec;36(6):1144-1162. doi:10.1002/ncp.10663. PMID:34101248.

Lupher V, Lynch A, **Zalesin KC**. Health, weight loss, and surgery beliefs: Why patients choose to undergo bariatric surgery and what influences their choice of surgery procedure. *Bariatr Surg Pract Patient Care*. 2021 Mar 23. doi:10.1089.



# PULMONARY AND CRITICAL CARE MEDICINE

## Peer Reviewed Articles:

ATTACC Investigators, ACTIV-4a Investigators, REMAP-CAP Investigators, Lawler PR, Goligher EC, Berger JS, et al, **[Nair GB]**. Therapeutic anticoagulation with heparin in noncritically ill patients with Covid-19. *N Engl J Med*. 2021 Aug 26;385(9):790-802. doi:10.1056/NEJMoa2105911. PMID:34351721.

Calvo-Ayala E, Procopio V, Papukhyan H, **Nair GB**. Performance of automated telemetry in diagnosing QT prolongation in critically ill patients. *Am J Crit Care*. 2021 Nov 1;30(6):466-470. doi:10.4037/ajcc2021568. PMID:34719703.

Castillo E, **Nair G**, Turner-Lawrence D, Myziuk N, Emerson S, Al-Katib S, et al. Quantifying pulmonary perfusion from noncontrast computed tomography. *Med Phys*. 2021 Apr;48(4):1804-1814. doi:10.1002/mp.14792. PMID:33608933.

Dioh W, Chabane M, Tourette C, Azbekyan A, Morelot-Panzini C, Hajjar LA, et al, **[Nair GB]**. Testing the efficacy and safety of BIO101, for the prevention of respiratory deterioration, in patients with COVID-19 pneumonia (COVA study): A structured summary of a study protocol for a randomised controlled trial. *Trials*. 2021 Jan 11;22(1):42. doi:10.1186/s13063-020-04998-5. PMID:33430924.

Haddaden M, Husami S, Alom M, Pang Y, Imam Z, **Keena D**. Shock in the setting of Diamond-Blackfan anemia relapse. *Case Rep Cardiol*. 2021 Apr 6, 2021:6623119. doi:10.1155/2021/6623119. PMID:33927902.

**Iftikhar H, Nair GB**, Kumar A. Update on diagnosis and treatment of adult pulmonary alveolar proteinosis. *Ther Clin Risk Manag*. 2021 Aug 10;17:7 01-710. doi:10.2147/TCRM.S193884. PMID:34408422.

Ionescu F, Jaiyesimi I, Petrescu I, Lawler PR, Castillo E, Munoz-Maldonado Y, et al, **[Nair GB]**. Association of anticoagulation dose and survival in hospitalized COVID-19 patients: A retrospective propensity score-weighted analysis. *Eur J Haematol*. 2021 Feb;106(2):165-174. doi:10.1111/ejh.13533. PMID:33043484.

Ionescu F, Zimmer MS, Petrescu I, Castillo E, **Bozyk P**, Abbas A, et al, **[Abplanalp L, Dogra S, Nair GB]**. Extubation failure in critically ill COVID-19 patients: Risk factors and impact on in-hospital mortality. *J Intensive Care Med*. 2021 Sep;36(9):1018-1024. doi:10.1177/08850666211020281. PMID:34074160.

Manzoor H, El-Sawalhy E, Hanayni W, Renfigo GT, **Ashkar AG**. A case of massive hemothorax leading to obstructive shock. *American Journal of Medical Case Reports*. 2021 Mar 14;9(5):305-7.

Moghadami M, Amini M, Moghadami M, **Dalal B**, Charlin B. Teaching clinical reasoning to undergraduate medical students by illness script method: A randomized controlled trial. *BMC Med Educ*. 2021 Feb 2;21(1):87. doi:10.1186/s12909-021-02522-0. PMID:33531017.

**Nair GB**, Al-Katib S, Podolsky RH, Quinn T, Stevens C, Castillo E. Dynamic lung compliance imaging from 4DCT-derived volume change estimation. *Phys Med Biol*. 2021 Nov 3;66(21). doi:10.1088/1361-6560/ac29ce. PMID:34560677.

**Nair GB**, Al-Katib S, Turner-Lawrence D, **Khasawneh M**, Myziuk N, Guerrero TM, et al. A prospective study to validate pulmonary blood mass changes on non-contrast 4DCT in pulmonary embolism patients. *Clin Imaging*. 2021 Oct, 78:179-183. doi:10.1016/j.clinimag.2021.02.023. PMID:33839544.

**Nair GB**, Galban CJ, Al-Katib S, Podolsky RH, van den Berge M, Stevens C, et al. An assessment of the correlation between robust CT-derived ventilation and pulmonary function test in a cohort with no respiratory symptoms. *Br J Radiol*. 2021 Feb 1;94(1118):20201218.doi:10.1259. PMID:33320729.

**Nair GB**, Niederman MS. Updates on community acquired pneumonia management in the ICU. *Pharmacol Ther*. 2021 Jan;217:107663. doi:10.1016.

Niederman MS, Baron RM, Bouadma L, Calandra T, Daneman N, DeWaele J, et al, **[Nair GB]**. Initial antimicrobial management of sepsis. *Crit Care*. 2021 Aug 26;25(1):307. doi:10.1186/s13054-021-03736-w. PMID:34446092.

Rali P, Sacher D, Rivera-Lebron B, Rosovsky R, Elwing JM, Berkowitz J, et al, **[Dalal B]**. Interhospital transfer of patients with acute pulmonary embolism: Challenges and opportunities. *Chest*. 2021 Nov;160(5):1844-1852. doi:10.1016/j.chest.2021.07.013. PMID:34273391.

REMAP-CAP Investigators, ACTIV-4a Investigators, ATTACC Investigators, Goligher EC, Bradbury CA, McVerry BJ, et al, **[Nair GB]**. Therapeutic anticoagulation with heparin in critically ill patients with Covid-19. *N Engl J Med*. 2021 Aug 26;385(9):777-789. doi:10.1056/NEJMoa2103417. PMID:34351722.

Sargent T, Kolderman N, **Nair GB**, Jankowski M, Al-Katib S. Risk factors for pneumothorax development following CT-guided core lung nodule biopsy. *J Bronchology Interv Pulmonol*. 2021 Oct 14. doi:10.1097/LBR.0000000000000816. PMID:34654044.

Yu L, Halalau A, **Dalal B**, Abbas AE, Ivascu F, Amin M, et al, **[Nair GB]**. Machine learning methods to predict mechanical ventilation and mortality in patients with COVID-19. *PLoS One*. 2021 Apr 1;16(4):e0249285. doi:10.1371/journal.pone.0249285. PMID:33793600.

### **Abstracts with Associated Research Publications:**

**Abplanalp L, Nair GB**, Ayala EC, Yu L. Static lung compliance as a predictor of extubation failure in non-COVID-19 patients with acute respiratory failure. *Chest*. 2021 Oct 1;160(4):A1095.

Goel M, Johnson Z, Patel M, Chawla R, **Salimnia T**. Infective endocarditis due to *Streptococcus salivarius* presenting as septic arthritis. *J Gen Intern Med*, Jul 2021;36(Suppl 1):S235.

Lee Y, Jehangir Q, Li P, Lin CH, Sule AA, Krishnamoorthy G, et al, **[Nair GB]**. Risk stratification for acute arterial and venous thromboembolism using CHA2DS2-VASc score in hospitalized COVID-19 patients: A multicenter study. *Blood*. 2021 Nov 23;138(Suppl 1):2120.

**Nair GB**, Al-Katib S, Turner-Lawrence D, Ionescu F, Galban CJ, Van den Berge M, et al. A Comparative study of ventilation perfusion mismatch derived from non-contrast CT scans in hospitalized COVID-19 patients. *Am J Respir Crit Care Med* 2021;203:A4467.

**Nair GB**, Lynch DA, Hatt C, Han MK, Galban CJ, Stevens C, et al. An exploratory study to characterize noncontrast CT derived lung perfusion in patients with COPD. *Am J Respir Crit Care Med* 2021, 203:A4576.

**Nair G**, Patel N, Castillo E. A study to evaluate the relation of positive pressure on quantitative pulmonary blood mass imaging using non-contrast CT scan. *Chest*. 2021 Oct 1;160(4): A1497.

O'Connor D, **Dalal B**. Unexpected findings in dynamic vs baseline procalcitonin in obese patients. *Chest*. 2021 Oct;160(Suppl 4): A1052. doi:10.1016/j.chest.2021.07.975.

**O'Connor D**, Mina N, Iftikhar H. Synergistic bleomycin toxicity and EVALI: A lethal combination. American College of Physicians-Michigan, 2021 Michigan Chapter Meeting. 2021 Oct 14-17. Virtual.

**Pottmeyer G**, Mundell J. Biliary stent migration: A rare cause of right-sided pulmonary abscess. *Chest*. 2021;160(Suppl 4):A327. doi:10.1016/j.chest.2021.07.330.

### **Invited Research Presentations:**

**Dalal B**. Sleep well, live well. Beaumont Practical and Progressive Updates in Primary Care Medicine, 2021 Apr 15-May 23. Virtual.

**Nair G**. Post-COVID care of the pulmonary patient. Beaumont Practical and Progressive Updates in Primary Care Medicine, 2021 Apr 15-May 23. Virtual.

Sardarli K, Leong R, **Weatherhead M**, **Dalal B**. Acute renal failure and an acid-base dilemma. American College of Physicians-Michigan, 2021 Michigan Chapter Residents/Medical Student Day. 2021 May 7. Virtual.

# NURSING

## Peer Reviewed Articles:

Boudiab EM, Lapkus M, Reilly J, Studzinski D, Czako P, Asbahi M, et al, **[Schmidt C]**. Cervical endocrine surgery with a novel opioid-limited perioperative protocol. *Am Surg*. 2021 Jun 11;31348211025736. doi:10.1177/00031348211025736. PMID:34114505.

**Brewer J**, Bartlett M, Harris D, Hui C. Improving communication between healthcare providers and pulmonary arterial hypertension patients: A survey of patient preferences. *Pulm Circ*. 2021 May 21;11(2):20458940211015813. doi:10.1177/20458940211015813. PMID:34094504.

Everson M, Wilbanks BA, **Hranchook AM**, Hirsch M, Clayton BA, Jordan LM, et al. From the operating room to the front lines: Shared experiences of nurse anesthetists during the Coronavirus pandemic. *AANA J*. 2021 Apr;89(2):109-116. PMID:33832570.

**Farina C, Hranchook AM, Bittinger AC**, Aebersold M. The flipped classroom with case-based learning in graduate nurse anesthesia education. *AANA J*. 2021 Jun;89(3):254-260. PMID:34042577.

**Golinski MA**. Implementation of magnesium sulphate as an adjunct to multimodal analgesic approach for perioperative pain control in lumbar laminectomy surgery: A randomized control-controlled clinical trial. *Anesth Abstr*. 2021;15(3):6-8.

Kline J, **Golinski M**, Selai B, Horsch J, Hornbaker K. The effectiveness of a blended POCUS curriculum on achieving basic focused bedside transthoracic echocardiography (TTE) proficiency. A formalized pilot study. *Cardiovasc Ultrasound*. 2021 Dec 9;19(1):39. doi:10.1186/s12947-021-00268-9. PMID:34886847.

Noga PM, Dermenchyan A, **\*Grant SM**, Dowdell EB. Developing statewide violence prevention programs in health care: An exemplar from Massachusetts. *Policy Polit Nurs Pract*. 2021 May;22(2):156-164. doi:10.1177/1527154420987180. PMID:33504282.

**Paul J**, Templin TN, Carruthers NJ, Burghardt PR, Ivanics C, Stemmer PM, et al. C-reactive protein levels in plasma and chronic venous ulcer exudate of persons who inject drugs: A pilot study. *Wounds*. 2021 Mar 31: WNDS20210331-1. PMID:33913822.

**Paul J**, Yilmaz A, Pieper B, Liu Z, Graham SF. Prospective comparative study: Metabolomics profiles of exudate and serum for patients with and without venous ulcer wound itch. *Itch*. 2021 Apr-Jun;6(2):e46 doi:10.1097/itx.0000000000000046

**Purvis SL**, Peterson JK, Embree JL, LaBorde PK, Pan S, Pullium CL, et al. NACNS white paper on telehealth competency for the clinical nurse specialist: Gap analysis and recommendations. National Association of Clinical Nurse Specialists, 2021 Aug. <https://nacns.org/advocacy-policy/position-statements/nacns-white-paper-on-telehealth-competency/>

**Rauch-Pucher M, McCartney T, Cox-Reber J, Markwell A**. Abdominal soft tissue infection caused by Mycobacterium Wolinskyi after cosmetic surgery: A case report. *J Wound Ostomy Continence Nurs*. 2021 Nov-Dec 01;48(6):573-577. doi:10.1097/WON.0000000000000826. PMID:34781315.

**Solecki CS**, Turkelson CL, Harris MA. Experiential learning through a dementia simulation. *J Gerontol Nurs*. 2021 Nov;47(11):39-47. doi:10.3928/00989134-20211013-03. PMID:34704869.

### **Abstracts with Associated Research Presentations:**

Hoang Roberts L, Vollstedt A, Volin J, **McCartney T**, Peters K. Stimwave for pudendal neuralgia. J Urol. 2021 Sep;206(Suppl 3):e600.

### **Invited Research Presentations:**

**Beslic A, Ninkovic D, Perko A.** Implementing curbside screening and testing during the COVID-19 pandemic. Beaumont Health Nursing Research and Evidence Based Practice Conference. 2021 Oct 13. Virtual.

**Bittinger AC.** Impairment in anesthesia. The Nebraska Association of Nurse Anesthetists Fall Conference, 2021 Oct 29-31, Omaha, NE.

**Bittinger AC.** Emotional intelligence and nurse anesthesia. The Nebraska Association of Nurse Anesthetists Fall Conference, 2021 Oct 29-31, Omaha, NE and The 7th Annual Lourdes University Nurse Anesthesia Conference, 2021 Mar 24, Perrysburg, OH.

Boudiab E, Lapkus M, Reilly J, Studzinski DM, Czako P, Asbahi M, et al, **[Schmidt C]**. Cervical endocrine surgery with a novel opioid-limited perioperative protocol. The 68th Annual Meeting of the Michigan Chapter of the American College of Surgeons, 2021 May 12-14. Virtual.

Caurdy-Bess L, **Muma L.** Honoring life and offering hope. The Beryl Institute, Elevate PX 2021. 2021 Apr 26-29. Virtual.

Donnay K, Howard E, Krueger L, **McDonald L**, Nelson K. Creation and implementation of an intraoperative lidocaine infusion protocol for gastric surgery. American Association of Nurse Anesthesiology, 2021 Annual Congress. 2021 Aug 13-17. Virtual.

Dreyer Z, **Bergeron S**, Hilli R, Wasvary H. Multidisciplinary management of rectal cancer affecting access to comprehensive care and overall cancer-free survival. The Oakland University Graduate Student Research Conference, 2021 May, Rochester Hills, MI.

Everson M, Wilbanks BA, **Hranchook AM**, Hirsch M, Clayton BA, Jordan LM, et al. From the operating room to the front lines: Shared experiences of nurse anesthetists during the coronavirus pandemic. American Association of Nurse Anesthesiology, 2021 Annual Congress. 2021 Aug 13-17. Virtual.

Farhat, L, Berry N, **Prouty A**, Mohammad I, McConachie, S. Evaluation of physician, pharmacist, nurse and patient agreement on new medication counseling points. Ohio Pharmacy Resident Conference, 2021 May 20, Ada, OH.

**Gawlik K**, Teter S. Elder abuse/vulnerable adult abuse: Screening, assessment & resources. Beaumont Health CME on Demand, 2021 Dec 7. Virtual.

Mitzova-Vladinov G, **Rodgers L.** Extended reality - the evolution of anesthesia training. Society for Simulation in Healthcare. 2021 Oct 25.

**Ponegalek A, Witt S.** Tummy time: Feasibility of a self-proning protocol in non-intubated patients with COVID 19 related ARDS. Beaumont Health Nursing Research and Evidence Based Practice Conference. 2021 Feb 17. Virtual.

**Purvis S.** Acute care nurses' knowledge of geriatric best practice knowledge. Beaumont Health Nursing Research and Evidence Based Practice Conference, 2021 Feb 17. Virtual.

**Rodgers L.** Virtual reality ... The new normal? The 7th Annual Lourdes University Nurse Anesthesia Conference, 2021 Mar 24, Perrysburg, OH.

**Shannon L.** Anesthesia for TAVR, when less is more. Michigan Association of Nurse Anesthetists 2021 Spring Conference. 2021 Mar 26-27. Rochester, MI. Virtual.

Vecore J, Baich J, **McDonald L.** Examining enhanced recovery after surgery (ERAS) protocol compliance. American Association of Nurse Anesthesiology, 2021 Annual Congress. 2021 Aug 13-17. Virtual.

Yedavally-Yellayi S, **Kinaya N**, Lucky C. End of life / palliative care +. Beaumont Practical and Progressive Updates in Primary Care Medicine, 2021 Apr 15-May 23. Virtual.

**Zapinski J.** What family members consider a good death. Beaumont Health Nursing Research and Evidence Based Practice Conference. 2021 Oct 13. Virtual.

# OBSTETRICS AND GYNECOLOGY

## Peer Reviewed Articles:

Akram H, Tran D, Rehman R, **Al-Wahab Z**. Aggressive angiomyxoma of left buttock. *BMJ Case Rep*. 2021 Jun 30;14(6):e241550. doi:10.1136/bcr-2021-241550. PMID:34193448.

Akyol S, Ugur Z, **Yilmaz A**, Ustun I, Gorti SKK, **Oh K**, et al, **[Graham SF]**. Lipid profiling of alzheimer's disease brain highlights enrichment in glycerol(phospho) lipid, and sphingolipid metabolism. *Cells*. 2021 Sep 29;10(10):2591. doi:10.3390/cells10102591. PMID:34685570.

**Alpay Savasan Z, Kim SK**, Oh KJ, Graham SF. Advances in cerebral palsy biomarkers. *Adv Clin Chem*. 2021;100:139-169. doi:10.1016.

Arden JD, Dokter J, Almahariq MF, Marvin K, Nandalur SR, Al-Wahab Z, et al, **[Gadzinski J, Rosen B]**. Toxicity and efficacy after adjuvant vaginal brachytherapy using 30 Gy in 6 fractions for stages I and II endometrial cancer. *Adv Radiat Oncol*. 2021 Aug 12;6(6):100773. doi:10.1016/j.adro.2021.100773. PMID:34934859.

**Axelson K**, Osto M, Rehman R, **Fakih M, Jones T**. Longest survival of expectantly managed twin gestation complicated by previable preterm premature rupture of membranes at 13 weeks' gestation. *Cureus*. 2021 Jul 18;13(7) :e16464. doi:10.7759/cureus.16464. PMID:34422493.

**Bahado-Singh RO**, Vishweswaraiah S, Aydas B, Radhakrishna U. Artificial intelligence and placental DNA methylation: Newborn prediction and molecular mechanisms of autism in preterm children. *J Matern Fetal Neonatal Med*. 2021 Aug 17:1-10. doi:10.1080/14767058.2021.1963704. PMID:34404318.

**Bahado-Singh RO**, Vishweswaraiah S, Aydas B, Radhakrishna U. Placental DNA methylation changes and the early prediction of autism in full-term newborns. *PLoS One*. 2021 Jul 14;16(7):e0253340. doi:10.1371/journal.pone.0253340. PMID:34260616.

**Bahado-Singh RO**, Vishweswaraiah S, Aydas B, Yilmaz A, Metpally RP, Carey DJ, et al. Artificial intelligence and leukocyte epigenomics: Evaluation and prediction of late-onset Alzheimer's disease. *PLoS One*. 2021 Mar 31;16(3):e0248375. doi:10.1371/journal.pone.0248375. PMID:33788842.

**Cruff J, Khandwala S**. A double-blind randomized sham-controlled trial to evaluate the efficacy of fractional carbon dioxide laser therapy on genitourinary syndrome of menopause. *J Sex Med*. 2021 Apr;18(4):761-769. doi:10.1016/j.jsxm.2021.01.188. PMID:33757774.

**Cruff J**. Robotic surgical training at home: A low-fidelity simulation method. *J Surg Educ*. 2021 Mar-Apr;78(2):379-381. doi:10.1016.

Daram NR, Berry L, **Fakih M, Alhousseini A**. Successful use of Myosure in the management of cesarean scar ectopic pregnancy. *Cureus*. 2021 Aug 27;13(8):e17500. doi:10.7759/cureus.17500. PMID:34603879.

English EM, Chen L, Sammarco AG, Kolenic GE, **Cheng W**, Ashton-Miller JA, et al. Mechanisms of hiatus failure in prolapse: A multifaceted evaluation. *Int Urogynecol J*. 2021 Jun;32(6):1545-1553. doi:10.1007/s00192-020-04651-4. PMID:33399905.

- Friedman P**, Yilmaz A, Ugur Z, **Jafar F**, **Whitten A**, Ustun I, et al, [**Turkoglu O**, **Bahado Singh R**]. Urine metabolomic biomarkers for prediction of isolated fetal congenital heart defect. *J Matern Fetal Neonatal Med*. 2021 May 4;1-8. doi:10.1080/14767058.2021.1914572. PMID:33944672.
- Heuerman AC**, Bessett D, Matheny Antommara AH, Tolusso LK, Smith N, Norris, et al. Experiences of reproductive genetic counselors with abortion regulations in Ohio. *J Genet Couns*. 2021 Nov 9. doi:10.1002/jgc4.1531. PMID:34755409.
- Jones T**, Reynolds L, Wilson MR., Stork B, Mukkamala SB. And justice for all: Advancing health equity in Michigan. *Michigan Medicine*. Jul/Aug 2021;120(4):12-17.
- Khandwala S**, **Cruff J**, **Williams C**. Retrospective analysis of sexual function after transvaginal mesh surgery. *Sex Med*. 2021 Feb;9(1):100281. doi:10.1016.
- Khandwala S**, **Cruff J**. Prospective analysis of transvaginal mesh hysteropexy in the treatment of uterine prolapse. *Int Urogynecol J*. 2021 Aug;32(8):2241-2247. doi:10.1007/s00192-020-04590-0. PMID:33175230.
- Khandwala S**, **Cruff J**. Single-incision midurethral sling by the dynamic intraoperative standing sling technique as an office-based procedure: A pilot study. *Urology*. 2021 Mar;149:34-39. doi:10.1016.
- Kim SK**, Vishweswaraiah S, Macknis J, Yilmaz A, Lalwani A, Mishra NK, et al, [**Ogunyemi D**, **Bahado-Singh RO**]. New-onset postpartum preeclampsia: Epigenetic mechanism and prediction. *J Matern Fetal Neonatal Med*. 2021 Aug 10:1-9. doi:10.1080/14767058.2021.1946504. PMID:34374309.
- Kim SR, Kotsopoulos J, Sun P, Bernardini MQ, Laframboise S, Ferguson SE, et al, [**Rosen B**]. The impacts of neoadjuvant chemotherapy and of cytoreductive surgery on 10-year survival from advanced ovarian cancer. *Int J Gynaecol Obstet*. 2021 Jun;153(3):417-423. doi:10.1002/ijgo.13542. PMID:33326624.
- Li P, Killinger BA, Ensink E, Beddows I, **Yilmaz A**, Lubben N, et al, [**Graham SF**]. Gut microbiota dysbiosis is associated with elevated bile acids in parkinson's disease. *Metabolites*. 2021 Jan 4;11(1):29. doi:10.3390/metabo11010029. PMID:33406628.
- Oong GC, **Eruo FU**. Vulvar hematoma. 2021 Nov 17. Treasure Island, FL. StatPearls Publishing. PMID:32809588.
- Osto M, **Brooks A**, **Khan A**. Ovarian cystic teratoma in pregnant women: Conservative management or prophylactic oophorectomy? *Cureus*. 2021 Aug 21;13(8):e17354. doi:10.7759/cureus.17354. PMID:34567894.
- Ottum S, Chao C, Tamakuwala S, **Dean J**, Shafi A, Kramer KJ, et al. Can ACGME milestones predict surgical specialty board passage: An example in obstetrics and gynecology. *Clin Exp Obstet Gynecol*. 2021 Oct 15;48(5):1048-1055. doi:10.31083/j.ceog4805168. PMID:34720368.
- Radhakrishna U, Nath SK, Vishweswaraiah S, Uppala LV, Forray A, Muvvala SB, et al, [**Bahado-Singh RO**]. Maternal opioid use disorder: Placental transcriptome analysis for neonatal opioid withdrawal syndrome. *Genomics*. 2021 Nov;113(6):3610-3617. doi:10.1016/j.ygeno.2021.08.001. PMID:34352367.
- Radhakrishna U, Vishweswaraiah S, Uppala LV, **Szymanska M**, Macknis J, Kumar S, et al, [**Bahado-Singh RO**]. Placental DNA methylation profiles in opioid-exposed pregnancies and



associations with the neonatal opioid withdrawal syndrome. *Genomics*. 2021 Mar 9;113(3):1127-1135. doi:10.1016/j.ygeno.2021.03.006. PMID:33711455.

Romero R, Pacora P, Kusanovic JP, Jung E, Panaitescu B, Maymon E, et al, **[Alhousseini A]**. Clinical chorioamnionitis at term X: Microbiology, clinical signs, placental pathology, and neonatal bacteremia - implications for clinical care. *J Perinat Med*. 2021 Jan 26;49(3):275-298. doi:10.1515.

**Sajja S, Idler J, Saad J, Bahado-Singh R**. Acute liver failure in pregnancy due to autoimmune hepatitis. *BMJ Case Rep*. 2021 Aug 11;14(8):e241355. doi:10.1136.

Tamakuwala S, **Dean J**, Kramer KJ, Shafi A, Ottum S, George J, et al. Potential impact of pass/fail scores on USMLE Step 1: Predictors of excellence in obstetrics and gynecology residency training. *J Med Educ Curric Dev*. 2021 Nov 15;8:23821205211037444. doi:10.1177/23821205211037444. PMID:34805529.

Tuma F, McKeown DG, **Al-Wahab Z**. Rectovaginal fistula. 2021 Oct 11. Treasure Island, FL. StatPearls Publishing. PMID:30570971.

Urich M, Ugur MR, Li F, Shamma FN, **Hammoud A, Cottrell HN**, et al. Comparison of two culture media on morphokinetics and ploidy status of sibling embryos. *Zygote*. 2021 Dec 9:1-6. doi:10.1017/S0967199421000927. PMID:34879892.

Yan Y, Basij M, Garg A, Varrey A, **Alhousseini A**, Hsu R, et al. Spectroscopic photoacoustic imaging of cervical tissue composition in excised human samples. *PLoS One*. 2021 Mar 3;16(3):e0247385. doi:10.1371/journal.pone.0247385. PMID:33657136.

### **Abstracts with Associated Research Presentations:**

**Jaber S**, Blanchard CT, Lu MY, Oglesby KR, Page MR, Lazenby AJ. 510 Contemporary trends in cesarean delivery rates and indications. *Am J Obstet. Gynecol*. 2021 Feb;224(2):S322.

Jaffar S, Shabazz T, **Eruo FU**. Gestational thrombocytopenia. *Am J Perinatol* 2021 Sep;38(S 02):A012.

Xia YY, Lubinski J, **Rosen B**, Moller P, Eisen A, Ainsworth P, et al. Contraceptive use and ovarian cancer risk in BRCA1 and BRCA2 mutation carriers: A prospective cohort study. *Cancer Research* 2021, 81(13S):878.

### **Invited Research Presentations:**

**Brockberg EH**. Demystifying chronic pelvic pain. Ob/Gyn Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. Jan 28, 2021.

**Delana L, Amos M**. Use of a cesarean section prerequisite checklist to decrease cesarean section rate without negatively impacting fetal outcomes - FH study. Alvin Yarrows Research Day, 2021 May. Farmington Hills MI.

**Elassar H, Alpay Savasan Z**. Racial disparities in perinatal outcomes among patients with pregestational diabetes mellitus. American College of Obstetrics and Gynecology. Annual Clinical & Scientific Meeting 2021, 2021 Apr 30-May 2. Virtual.

**Eruo F**. Estrogen-progesterone in combined oral contraceptive pills. Obstetrics Gynecology Grand Rounds Lecture Presentation. Beaumont Hospital, Dearborn. Dearborn, MI. Jul 6, 2021.

**Eruo F.** Hematologic autoimmune and oncology in pregnancy. Lecture Presentation. Osler Institute Obstetrics & Gynecology 2021 Online Review. Chicago, IL. Jun 16, 2021.

**Eruo F.** Medical disorders in pregnancy I (Neuro, GI, Renal, Hematology). Lecture Presentation. Osler Institute Obstetrics & Gynecology 2021 Online Review. Chicago, IL. Jun 14, 2021.

**Eruo F.** Non-contraceptive uses and benefits of intrauterine contraceptive devices. First Annual Global Women's Health Fellowship & Research Symposium. University of Michigan OB/GYN Department. Ann Arbor, MI. Nov 16, 2021. Virtual.

**Eruo F.** Obstetric emergencies. Obstetrics Gynecology Grand Round Lecture Presentation. Beaumont Hospital, Dearborn. Dearborn, MI. May 11, 2021.

**Eruo F.** Obstetric emergencies. Lecture presentation. Osler Institute Obstetrics & Gynecology 2021 Online Review. Chicago, IL. Jun 16, 2021.

**Eruo F.** Prenatal diagnosis. Lecture Presentation. Osler Institute Obstetrics & Gynecology 2021 Online Review. Chicago, IL. Jun 16, 2021.

**Eruo F.** Ureteric and bladder injuries in obstetrics & gynecology. Oral Lecture Presentation. Beaumont Hospital. Dearborn, MI. Mar 9, 2021.

**Eruo F, Almusawi Z, Edriss M.** Uterine fibroids and clinical decision making – When should pelvic MRI be ordered? 29th World Congress on Controversies in Obstetrics, Gynecology & Infertility (COGI) Berlin, Germany. Dec 2-4, 2021.

**Eruo F, Dettloff K.** Translocation of copper intrauterine contraceptive device via right Fallopian tube. Society for the Study of Reproduction (SSR) 54TH Annual Meeting. St. Louis, MO. Dec 17, 2021.

**Eruo F, Essenmacher W.** Failed tubal ligation, an undesired but not a rare outcome. Society for the Study of Reproduction (SSR) 54th Annual Meeting. St. Louis, MO. Dec 18, 2021.

**Eruo F, Ghazanifar-Torabi S, Lore A, Jones, T.** Transduodenal drainage of large pancreatic pseudocyst in pregnancy. 29th World Congress on Controversies in Obstetrics, Gynecology & Infertility (COGI) Berlin, Germany. Dec 2- 4, 2021.

**Eruo F, Kunz J.** Peripartum cardiomyopathy & intra-aortic balloon pump (IABP) – lifesaver or not. The 6th International Congress on Cardiac Problems in Pregnancy CPP Symposium. Porto, Portugal. Feb 11-14, 2021. Virtual.

**Eruo F, Ogbejesi C.** Hemodialysis in pregnancy – how often is too often? 29th World Congress on Controversies in Obstetrics, Gynecology & Infertility (COGI) Berlin, Germany. Dec 2-4, 2021.

**Eruo F, Walworth K and Fana M.** Non-compaction cardiomyopathy & ventricular septal defect (VSD) in Di-Di twin gestation. The 6th International Congress on Cardiac Problems in Pregnancy CPP Symposium. Porto, Portugal. Feb 11-14, 2021. Virtual.

**Eruo F, Weiss T.** Gastroschisis – antenatal diagnosis is crucial. 29th World Congress on Controversies in Obstetrics, Gynecology & Infertility (COGI) Berlin, Germany. Dec 2- 4, 2021.

**Graham SF.** Biomarkers of neurodegenerative disease. William Davidson Medical Education Week. Oakland University William Beaumont School of Medicine, 2021 May 20. Virtual.

**Graham SF.** Future research activities of the Graham lab. BMB Spring Seminar Series. Michigan State University, 2021 Apr 22. Virtual.

**Graham SF.** Gut dysbiosis, bile acids and Parkinson's disease. International e-Symposium on Probiotics, Prebiotics & Gut Microbiome: Key Regulators for Human & Animal Health. Guru Angad Dev Veterinary and Animal Sciences University, 2021 Nov 11. Virtual.

**Haltigan C.** OB patient care. Ob/Gyn Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Jan 21.

**Hammaud AO.** Congenital uterine anomalies (CUA). Ob/Gyn Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Mar 4.

Jaffar S, Shabazz T, **Eruo F.** Determining the underlying cause of gestational thrombocytopenia. 13th Philadelphia Prenatal Diagnosis Conference, Philadelphia, PA. 2021 Jun 10-12. Virtual.

**Jhita R, Walsworth D.** Implementing ERAS for GYN surgery (QI Project). Beaumont Hospital, Dearborn Resident Research Day, Dearborn, MI. 2021 Apr.

**Jones R.** The care of the HIV infected woman. Perinatal Health Conference, MDHHS, 2021 Jul 9.

**Jones T.** HIV in pregnancy. Obstetrics and Gynecology Grand Rounds, Beaumont Royal Oak Department of Obstetrics and Gynecology, 2021 Feb. 25.

**Martin K, Zajac E.** Use of benadryl during labor to decrease cervical edema and cesarean section rates. Alvin Yarrows Research Day, 2021 May. Farmington Hills, MI.

**Nam J, Delwadia R, Khan A.** OB/Gyn improving assessment of post-partum hemorrhage through routine simulation training. Beaumont Hospital Dearborn Resident Research Day, Dearborn, MI. 2021 Apr.

Russell RA, **Khan A.** OB/Gyn improving knowledge and quality of repair in obstetric anal sphincter injuries (OASIS) using beef tongue model for simulation. Beaumont Hospital, Dearborn Resident Research Day, Dearborn, MI. 2021 Apr.

**Sajja S.** Covid 19 in pregnancy: Is the end in sight? Ob/Gyn Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 May 27.

**Schmitt K, Osto M, Khan A.** OB/Gyn hysteroscopic removal of intrauterine device embedded in a isthmocoele. Beaumont Hospital Dearborn Resident Research Day. Dearborn, MI. 2021 Apr.

**Shah AA.** Controlling blood loss in the OR. Ob/Gyn Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Apr 1.

**Turkoglu, O.** Untargeted metabolomic identification of diagnostic biomarkers in ectopic pregnancy. Annual Junior Fellow Research Day, Michigan Section. American College of Obstetricians & Gynecologists, 2021 May 12. Virtual.

Wong S, **Alpay Savasan Z.** Effectiveness of prenatal screening tests on predicting cardiac anomalies. American College of Physicians 2021 Michigan Chapter Residents/Medical Student Day Meeting 2021 May 7. Virtual.

Zeng E, **Paraschos V, Onyiuke N, Eruo F.** False positive beta hCG likely due to chronic kidney disease. Society for the Study of Reproduction. 2021 SSR Contraceptive Symposium. 2021 Jul 26-Aug 4. Virtual.

**Multimedia:**

Shajahan, A., **Wharton, K.** The Labor & Delivery: Making shared decisions episode. Michigan: Beaumont Health, 2021. <https://www.youtube.com/watch?v=Ck8JnfBVlcs>

Shajahan, A., **Wharton, K.** The Labor & Delivery: Special episode: COVID-19 vaccines & pregnancy. Michigan: Beaumont Health, 2021. <https://www.youtube.com/watch?v=C2y-ahf5530>

# OPHTHALMOLOGY

## Peer Reviewed Articles:

Aref AA, Scott IU, VanVeldhuisen PC, King J, Ip MS, Blodi BA, et al, **[Williams G, Shields R]**. Intraocular pressure-related events after anti-vascular endothelial growth factor therapy for macular edema due to central retinal vein occlusion or hemiretinal vein occlusion: SCORE2 Report 16 on a secondary analysis of a randomized clinical trial. *JAMA Ophthalmol.* 2021 Dec 1;139(12):1285-1291. doi:10.1001/jamaophthalmol.2021.4395. PMID:34709363.

Baker N, **Chao J, Pearce ZD**. Progressive eyelid swelling in a middle-aged man. *JAMA Ophthalmol.* 2021 Jan 1;139(1):123-124. doi:10.1001.

Cai LZ, Lin J, Starr MR, Obeid A, Ryan EH, Ryan C, et al, **[Capone A]**. PRO score: Predictive scoring system for visual outcomes after rhegmatogenous retinal detachment repair. *Br J Ophthalmol.* 2021 Nov 23;bjophthalmol-2021-320440. doi:10.1136/bjophthalmol-2021-320440. PMID:34815237.

**Chao J, Rao R, Gupta C**. Gómez-López-Hernández syndrome: A case report on pediatric neurotrophic corneal ulcers and review of the literature. *J AAPOS.* 2021 Dec;25(6):373-375. doi:10.1016/j.jaapos.2021.08.299. PMID:34678507.

**Chen P, Beaulieu R, Black E**. Aberrant regeneration of cranial nerve 3 following Schwannoma resection. *Ophthalmic Plast Reconstr Surg.* 2021 Sep-Oct 01;37(5):e191. doi:10.1097/IOP.0000000000001858. PMID:33237665.

Chiang MF, Quinn GE, Fielder AR, Ostmo SR, Paul Chan RV, Berrocal A, et al, **[Capone A Jr]**. International Classification of Retinopathy of Prematurity, Third Edition. *Ophthalmology.* 2021 Oct;128(10):e51-e68. doi:10.1016/j.ophtha.2021.05.031. PMID:34247850.

Chuck RS, **Dunn SP**, Flaxel CJ, Gedde SJ, Mah FS, Miller KM, et al. Comprehensive adult medical eye evaluation preferred practice pattern®. *Ophthalmology.* 2021 Jan;128(1):P1-P29. doi:10.1016.

Conrady CD, **Faia LJ**, Gregg KS, Rao RC. Coronavirus-19-associated retinopathy. *Ocul Immunol Inflamm.* 2021 May 19;29(4):675-676. doi:10.1080/09273948.2021.1894456. PMID:33856276.

Demirci H, Elner VM, Demirci FY, Robinson DR, Chinnaiyan A, **Schlachter D**, et al. Immunotherapy for conjunctival squamous cell carcinoma with orbital extension. *Ophthalmology.* 2021 May;128(5):801-804. doi:10.1016.

Do TH, **Kahana A**. Thyroid eye disease: Pathogenic risk factors. *Int Ophthalmol Clin.* 2021 Apr 1;61(2):3-20. doi:10.1097/IIO.0000000000000355. PMID:33743525.

Dong LK, **Shields RA**, Subramanian S, **Lee R, Wa CA, Ruby AJ, Hassan TS**. Features and outcomes of eyes that underwent surgical repair of rhegmatogenous retinal detachments after being treated for acute endophthalmitis. *Retina.* 2021 Aug 1;41(8):1612-1617. doi:10.1097/IAE.00000000000003091. PMID:33394997.

Flores Pimentel MA, **De la Huerta I**, Duncan JL, Slavotinek AM, Moore AT, de Alba Campomanes AG. Phenotypic heterogeneity in a family with X-linked familial exudative vitreoretinopathy with prevention of visual loss in an affected male child with laser treatment in infancy. *Retin Cases Brief Rep.* 2021 May 1;15(3):324-329. doi:10.1097/ICB.0000000000000796. PMID:30074570.

\***Folberg R**. Wiping the mud from our eyes. *Am J Ophthalmol.* 2021 Apr;224:A1-A2. doi:10.1016.

Ji MH, Moshfeghi DM, **Shields RA**, Bodnar Z, Ludwig CA, Callaway NF, et al. Conserved regression patterns of retinopathy of prematurity after intravitreal ranibizumab: A class effect. *Eur J Ophthalmol*. 2021 Jul;31(4):2135-2140. doi:10.1177/1120672120945101. PMID:32722932.

Jovanovic N, Russell WW, Heisel CJ, Hood CT, **Kahana A**. Direct injection of 5-fluorouracil improves outcomes in cicatrizing conjunctival disorders secondary to systemic disease. *Ophthalmic Plast Reconstr Surg*. 2021 Mar-Apr 01;37(2):145-153. doi:10.1097/IOP.0000000000001717. PMID:32427724.

**Kahana A**. Orbital inflammatory disorders: New knowledge, future challenges. *Curr Opin Ophthalmol*. 2021 May 1;32(3):255-261. doi:10.1097/ICU.0000000000000743. PMID:33606408.

**Kahana A**, Unsworth SP, Andrews CA, Chan MP, Bresler SC, Bichakjian CK, et al. Vismodegib for preservation of visual function in patients with advanced periocular basal cell carcinoma: The VISORB trial. *Oncologist*. 2021 Jul;26(7):e1240-e1249. doi:10.1002/onco.13820. PMID:33988881.

Karthik N, **Shields RA**, Brown MM, Aoun M, **Wolfe JD**, **Drenser KA**, et al, [**Capone A**, **Williams GA**]. Interest in telehealth among patients with chronic retinal conditions. *J VitreoRetinal Diseases*. 2021 Sep;5(5):382-8.

Kim SJ, Sonmez K, Swan R, Campbell JP, Ostmo S, Chan RVP, et al, [**Drenser KA**, **Cumming K**, **Ostentoski T**, **Check T**, **Zajechowski M**]. Identification of candidate genes and pathways in retinopathy of prematurity by whole exome sequencing of preterm infants enriched in phenotypic extremes. *Sci Rep*. 2021 Mar 2;11(1):4966. doi:10.1038/s41598-021-83552-y. PMID:33654115.

**Korot E**, Rolain MM, Evans A, Thanos A, Bergeles C, Wood EH, et al, [**Roalain MA**]. Purpose-built, head-mounted 3D display for ophthalmic microsurgery: Surgical skill performance and evaluation: A pilot study. *BMJ Innovations* 2021;7: 463-469. doi:10.1136.

**Koulisis N**, **Moysidis SN**, **Govindaraju VK**, Dersch AM, **Capone A Jr**, Covert DJ, et al, [**Drenser KA**, **Faia LJ**, **Garretson BR**, **Mahmoud TH**, **Randhawa S**, **Ruby AJ**, **Trese MT**, **Wolfe JD**, **Williams GA**]. Clinical outcomes and treatment course of eyes with neovascular age-related macular degeneration following the development of endophthalmitis. *Retina*. 2021 Jun 1;41(6):1242-1250. doi:10.1097/IAE.0000000000002998. PMID:33079789.

**Lee R**, **Govindaraju V**, **Farley ND**, Abbey AM, Stem MS, **Shields RA**, et al, [**Wa CA**, **Williams GA**, **Faia LJ**, **Hassan TS**, **Wolfe JD**]. Refractive outcomes after sutureless intrascleral fixation of intraocular lens with Pars Plana vitrectomy. *Retina*. 2021 Apr 1;41(4):822-826. doi:10.1097/IAE.0000000000002916. PMID:32833409.

Macor S, Pignatto S, **Capone A Jr**, Piermarocchi S, Lanzetta P. Lens-sparing vitrectomy for stage 4 A retinopathy of prematurity in infants with aggressive-posterior ROP: Anatomic and functional results. *Eur J Ophthalmol*. 2021 Jul;31(4).

Milman T, Eiger-Moscovich M, Henry RK, \***Folberg R**, Coupland SE, Grossniklaus HE, et al. Validation of the newly proposed World Health Organization classification system for conjunctival melanocytic intraepithelial lesions: A Comparison with the C-MIN and PAM classification schemes. *Am J Ophthalmol*. 2021 Mar;223: 60-74. doi:10.1016.

**Moysidis SN**, **Koulisis N**, Adrean SD, Charles S, Chetty N, Chhablani JK, et al, [**Hassan TS**, **Mahmoud TH**]. Autologous retinal transplantation for primary and refractory macular holes and macular hole retinal detachments: The Global Consortium. *Ophthalmology*. 2021 May;128(5):672-685. doi:10.1016.

**Moysidis SN, Koulisis N, Rao P, Govindaraju VK, Gamsky S, Mahmoud TH, et al, [Randhawa S, Faia LJ, Wolfe JD, Drenser KA, Ruby AJ, Garretson BR, Hassan TS, Williams GA, Trese MT, Capone A Jr].** Peripheral retinal angiographic findings in macular telangiectasis type 2. *Retina*. 2021 Mar 1;41(3):480-486. doi:10.1097/IAE.0000000000002981. PMID:32969983.

**Omari A, Khan N, Tausif H, Nyalakonda R, Williams GA, Gupta C.** Temporary keratoprosthesis with penetrating keratoplasty in conjunction with Pars Plana vitrectomy for repair of retinal detachments in patients with anterior and posterior segment pathology. *Retin Cases Brief Rep*. 2021 Feb 1. doi:10.1097/ICB.0000000000001136. PMID:33555819.

**Page TP Sr, Werner L, Ellis N, Heczko JB.** Capsular tension ring explant complication rate comparison using Miyake-Apple video analysis. *J Cataract Refract Surg*. 2021 Jun 1;47(6):786-791. doi:10.1097/j.jcrs.0000000000000479. PMID:33196575.

**Page TP Sr, Werner L, Ellis N, Heczko JB.** Reply: 'S' means stop! Critical examination of capsular tension ring movements with Miyake-Apple video analysis. *J Cataract Refract Surg*. 2021 Aug 1;47(8):1106-1107. doi:10.1097/j.jcrs.0000000000000720. PMID:34292907.

**Page TP Sr, Werner L, Ellis N, Heczko JB.** 'S' means stop! Critical examination of capsular tension ring movements with Miyake-Apple video analysis. *J Cataract Refract Surg*. 2021 Mar 1;47(3):379-384. doi:10.1097/j.jcrs.0000000000000467. PMID:33149043.

**Page TP.** Intraoperative wavefront aberrometry to determine planar endpoint for the repositioning of vaulted accommodative IOLs. *J Cataract Refract Surg*. 2021 Apr 1;47(4):542-546. doi:10.1097/j.jcrs.0000000000000340. PMID:32694306.

**Patel SN, Mahmoud TH, Kazahaya M, Todorich B.** Autologous neurosensory retinal transplantation: Bridging the gap. *Retina*. 2021 Dec 1;41(12):2417-2423. doi:10.1097/IAE.0000000000003210. PMID:33990116.

**Patel SN, Starr MR, Obeid A, Ryan EH, Ryan C, Forbes NJ, et al, [Capone A Jr].** Characteristics and surgical outcomes of rhegmatogenous retinal detachment in older adults: A multicenter comparative cohort study. *Retina*. 2021 May 1;41(5):947-956. doi:10.1097/IAE.0000000000002969. PMID:32858667.

**Pidro A, Jovanovic N, Kadribašić E, Barucija N, Leto N, Kahana A.** Delayed management of an orbital floor blow-out fracture. *Beyoglu Eye J*. 2021 Sep 27;6(3):249-253. doi:10.14744/bej.2021.94834. PMID:35005524.

**Rao P, Kaiser R, Lum F, Atchison E, Parke DW 2nd, Williams GA.** Reoperation rates of patients undergoing primary noncomplex retinal detachment surgery in a cohort of the IRIS registry. *Am J Ophthalmol*. 2021 Feb;222: 69-75. doi:10.1016.

**Rassi A, Todorich B, Faia LJ, Trese M, Drenser K, Capone A Jr.** Congenital toxoplasmosis associated with tractional retinal detachment. *Retin Cases Brief Rep*. 2021 May 1;15(3):243-245. doi:10.1097/ICB.0000000000000773. PMID:30015769.

**Repka MX, Glasser DB, Cohen CG, Li C, Lum C, Lum F, et al, [Williams GA].** Use of bevacizumab injections in Medicare fee for service in the IRIS® registry. *Ophthalmol Retina*. 2021 Sep;5(9):935-936. doi:10.1016/j.oret.2021.03.003. PMID:33689905.

- Rooney DM**, Oltmanns MH, Sapp MR, Morris RE. Necrosis of the retina and uveal tract secondary to expanding gas tamponade. *Retin Cases Brief Rep.* 2021 Sep 1;15(5):523-526. doi:10.1097/0000000000000841. PMID:30601459.
- Schwab IR, **Heidemann DG**. Ommatophore (Eyestalk) magic: *Lobatus costatus*. *Ophthalmology.* 2021 Nov;128(11):1548. doi:10.1016/j.optha.2021.03.033. PMID:34688428.
- Schwab IR, **Heidemann DG**. Vertical pupil in a lemon shark. *Ophthalmology.* 2021 Feb;128(2):316. doi:10.1016.
- Schwab IR, **Heidemann DG**. Zebra mantis shrimp. *Ophthalmology.* 2021 Jan;128(1):129. doi:10.1016.
- Shields RA, Cheng OT, Wolfe JD**. Iatrogenic vitreous hemorrhage, subretinal hemorrhage, and branch retinal vein occlusion after YAG laser vitreolysis for symptomatic vitreous floaters. *Ophthalmology.* 2021 Apr;128(4):616. doi:10.1016.
- Shields RA, Cheng OT, Ruby AJ, Williams GA, Wolfe JD**. Retinal complications after Yttrium-aluminum-garnet laser vitreolysis for vitreous floaters. *Ophthalmic Surg Lasers Imaging Retina.* 2021 Nov;52(11):610-613. doi:10.3928/23258160-20211014-02. PMID:34766848.
- Shields RA**, Lee IJ, Brown MM, Dong LK, **Lee R, Wa CA**, et al, **[Hassan TS]**. Clinical course and characteristics of eyes with recurrent episodes of endophthalmitis. *Ophthalmol Retina.* 2021 Jan;5(1):10-15. doi:10.1016.
- Shields RA, Mahmoud TH**. Management of autologous retinal transplant complications: A case series. *Retina.* 2021 Oct 23. doi:10.1097/IAE.0000000000003329. PMID:34723900.
- Starr MR, Cai L, Obeid A, Ryan EH, Elliott D, Ryan C, et al, **[Capone A]**. Risk factors for presence of cystoid macular edema following rhegmatogenous retinal detachment surgery. *Curr Eye Res.* 2021 Dec;46(12):1867-1875. doi:10.1080/02713683.2021.1929330. PMID:33979556.
- Starr MR, Hsu J, Yonekawa Y, Mittra RA, Ryan C, Forbes NJ, et al, **[Capone A Jr]**. Surgical techniques for primary rhegmatogenous retinal detachments between surgeons with high versus low single surgery success rates. *Acta Ophthalmol.* 2021 Dec;99(8):e1501-e1508. doi:10.1111/aos.14821. PMID:33720540.
- Starr MR, Obeid A, Gao X, Ryan EH, Shah GK, Ryan C, et al, **[Capone A Jr]**. Prophylactic internal limiting membrane peeling during rhegmatogenous retinal detachment surgery. *Acta Ophthalmol.* 2021 Jun;99(4):e619-e620. doi:10.1111/aos.14560. PMID:32749767.
- Starr MR, Obeid A, Ryan EH, Ryan C, Ammar M, Patel LG, et al, **[Capone A Jr]**. Retinal detachment with inferior retinal breaks: Primary vitrectomy versus vitrectomy with scleral buckle (PRO Study Report No. 9). *Retina.* 2021 Mar 1;41(3):525-530. doi:10.1097/IAE.0000000000002917. PMID:33600131.
- Tanenbaum RE, Lobo R, **Kahana A**, Wester ST. Advances in magnetic resonance imaging of orbital disease. *Can J Ophthalmol.* 2021 May 28:S0008-4182(21)00169-1. doi:10.1016/j.jcjo.2021.04.025. PMID:34058140.
- Tran AQ, Zhang-Nunes SX, Cahill K, Alabiad CR, Shriver EM, Ho T, et al, **[Schlachter DM]**. Thyroid eye disease with choroidal folds. *Orbit.* 2021 Jun;40(3):206-214. doi:10.1080/01676830.



**Trese M**, Schimmel O, **Gupta C**. Extensive autoimmune keratolysis with subsequent corneal perforation managed with tectonic endothelial keratoplasty. *Am J Ophthalmol Case Rep*. 2021 Feb 5;21:101031. doi:10.1016/j.ajoc.2021.101031. PMID:33604490.

**Trese MT**. Pediatric retina: Lessons from the past and goals for the future. *Indian J Ophthalmol*. 2021 Aug;69(8):1983-1985. doi:10.4103/ijoc.IJO\_1800\_21. PMID:34304159.

Tukel MR, Adelman MJ, **Gladstone GJ**, Appleford C. Nonintestinal type adenocarcinoma of the ethmoid sinus with unusual cribriform histologic pattern. *Ophthalmic Plast Reconstr Surg*. 2021 May-Jun 01;37(3):e123. doi:10.1097/IOP.0000000000001736. PMID:32732540.

Wang J, Ford J, Esmaeli B, Langer P, Esmaili N, Griepentrog GJ, et al, **[Barmettler A]**. Inverted papilloma of the orbit and nasolacrimal system. *Ophthalmic Plast Reconstr Surg*. 2021 Mar-Apr 01;37(2):161-167. doi:10.1097/IOP.0000000000001719. PMID:32501879.

**Weiner AJ, Weiner Y**, Weiner A. Corneal parameters after tube-shunt implantation through the ciliary sulcus. *Ophthalmol Glaucoma*. 2021 Jan-Feb;4(1):32-41. doi:10.1016.

Wood EH, Ji MH, Rao P, Lertjirachai I, Nguyen L, **Sbrocca RV**, et al, **[Shah N, Drenser KA]**. Management of type 2 retinopathy of prematurity or less in infants aged 45 weeks postmenstrual age or older. *Ophthalmic Surg Lasers Imaging Retina*. 2021 Dec;52(12):636-641. doi:10.3928/23258160-20211031-02. PMID:34908484.

Writing committee for the Post-Injection Endophthalmitis Study Group, Patel SN, Tang PH, Storey PP, **Wolfe JD**, Fein J, et al. The influence of universal face mask use on endophthalmitis risk after intravitreal anti-vascular endothelial growth factor injections. *Ophthalmology*. 2021 Nov;128(11):1620-1626. doi:10.1016/j.ophtha.2021.05.010. PMID:34019955.

Xiao S, Gaier ED, Wu HC, Angjeli E, Nuth PL, **Bohra LI**, et al. Digital therapeutic improves visual acuity and encourages high adherence in amblyopic children in open-label pilot study. *J AAPOS*. 2021 Apr;25(2):87:e1-87.e6. doi:10.1016.

Yu JS, Carlton R, Agashivala N, **Hassan T**, Wykoff CC. Brolicizumab vs aflibercept and ranibizumab for neovascular age-related macular degeneration: A cost-effectiveness analysis. *J Manag Care Spec Pharm*. 2021 Jun;27(6):743-752. doi:10.18553/jmcp.2021.27.6.743. PMID:34057392.

### **Book Chapter or Full Book Publications:**

Golan S, Zoumalan CI, **Nesi, FA**, Lelli GJ. Instrumentation in ophthalmic plastic surgery. *Smith and Nesi's ophthalmic plastic and reconstructive surgery*. Cham: Springer Nature, 2021. p105-118.

Servat JJ, Black EH, **Nesi FA**, Gladstone GJ, Calvano CJ, editors. *Smith and Nesi's ophthalmic plastic and reconstructive surgery*. Cham: Springer Nature, 2021.

### **Abstracts with Associated Research Publications:**

**Bakhsh S, Shields RA, Tahboub MA, Capone A**. Patient preference regarding laser photocoagulation or cryoretinopexy for the treatment of retinal pathology. *Investigative Ophthalmology & Visual Science*. 2021 Jun 21;62(8):3097.

Cole E, Park SH, Kim SJ, Kang K, Valikodath N, Al-Khaled T, et al, **[Drenser KA]**. Variability in plus disease diagnosis using single and serial retinal images. *Investigative Ophthalmology & Visual Science*. 2021 Jun 21;62(8):1929.

Starr M, Cai L, Ammar M, Patel L, Obeid A, Ryan E, et al, **[Capone A]**. Development of cystoid macular edema following rhegmatogenous retinal detachment surgery. *Investigative Ophthalmology & Visual Science*. 2021 Jun 21;62(8):3657.

**Invited Research Presentations:**

**Cheng O, Kally P, Beaulieu R.** Periocular non-tuberculous mycobacterium infection after combination autologous fat transfer with subdermal micro-needling and fractional radiofrequency skin resurfacing. American Society of Ophthalmic Plastic & Reconstructive Surgery, Oculofacial Plastic Surgery. 52nd Annual Fall Scientific Symposium. New Orleans, LA, 2021 Nov 11-12.

**Faia L.** That's not how the Force works! Uveitis surgery pearls and discussion. Beaumont Health on Demand Series. VBS 2021: The Force Awakens Episode 1, Aug 1, 2021. Virtual.

**Kahana A.** Advances in the treatment of congenital ptosis. New Orleans Academy of Ophthalmology 70th Annual Symposium. New Orleans, LA, 2021 Apr 16-18, 2021.

**Kahana A.** Advances in the treatment of thyroid eye disease. New Orleans Academy of Ophthalmology 70th Annual Symposium. New Orleans, LA, 2021, Apr 16-18, 2021

**Kahana A.** Ocular surface and fornix reconstruction: Flaps, grafts and blood supply. New Orleans Academy of Ophthalmology 70th Annual Symposium. New Orleans, LA, 2021 Apr 16-18, 2021.

**Kahana A.** Orbital decompression surgery: Surgical tips and pearls. New Orleans Academy of Ophthalmology 70th Annual Symposium. New Orleans, LA, 2021 Apr 16-18, 2021.

**Kahana A.** Orbital vascular anomalies: Classification and treatment. New Orleans Academy of Ophthalmology 70th Annual Symposium. New Orleans, LA, 2021 Apr 16-18, 2021.

**Kahana A.** The many uses of 5-fluorouracil in oculoplastic surgery. New Orleans Academy of Ophthalmology 70th Annual Symposium. New Orleans, LA, 2021 Apr 16-18, 2021.

**Kally P, Cheng O, Do T, Schlachter D, Nesi-Eloff F.** Microbial profile of lacrimal system dacryolith in Midwest patient population. American Society of Ophthalmic Plastic & Reconstructive Surgery, Oculofacial Plastic Surgery. 52nd Annual Fall Scientific Symposium. New Orleans, LA, 2021 Nov 11-12.

**Omari, A.** The role of the midperipheral retina in diabetic macular edema. The 53rd Annual Meeting of the Michigan Society of Eye Physicians & Surgeons, 2021 Jul 8-10, Mackinac Island, MI

# ORTHOPEDIC SURGERY

## Peer Reviewed Articles:

Andrade R, Nunes J, **Hinckel BB**, Gruskay J, Vasta S, Bastos R, et al. Cartilage restoration of patellofemoral lesions: A systematic review. *Cartilage*. 2021 Dec;13(Suppl 1):57S-73S. doi:10.1177/1947603519893076. PMID:31845590.

Anoushiravani AA, Singh V, **Feng JE**, Posner A, Jean-Louis K, Schwarzkopf R, et al. Preoperative oral hydration is safe in rapid recovery total hip arthroplasty. *J Hip Surg* 2021 Mar;5(01):007-11.

**Auch E**, Barbachan Mansur NS, Alexandre Alves T, Cychosz C, Lintz F, et al. Distal tibiofibular syndesmotic widening in progressive collapsing foot deformity. *Foot Ankle Int*. 2021 Jun;42(6):768-775. doi:10.1177/1071100720982907. PMID:33508965.

**Audet MA**, Benedick A, Breslin MA, Schmidt T, Vallier HA. Determinants of functional outcome following ankle fracture. *OTA Int*. 2021 Jul 21;4(3):e139. doi:10.1097/O19.000000000000139. PMID:34746671.

**\*Baker EA**, Fleischer MM, **Vara AD**, **Salisbury MR**, **\*Baker KC**, **Fortin PT**, et al. Local and systemic in vivo responses to osseointegrative titanium nanotube surfaces. *Nanomaterials (Basel)*. 2021 Feb 26;11(3):583. doi:10.3390/nano11030583. PMID:33652733.

Benedick A, Kavanagh M, **Audet M**, Simske NM, Vallier HA. Supination adduction ankle fractures are associated with arthritis and poor outcomes. *J Orthop Trauma*. 2021 Jun 1;35(6):e195-e201. doi:10.1097/BOT.0000000000001992. PMID:33105458.

Burk-Rafel J, Reinstein I, **Feng J**, Kim MB, Miller LH, Cocks PM, et al. Development and validation of a machine-learning-based decision support tool for residency applicant screening and review. *Acad Med*. 2021 Aug 3. doi:10.1097/ACM.0000000000004317. PMID:34348383.

Carsen S, Grammatopoulos G, **Zaltz I**, Ward L, Smit K, Beaulé PE. The effects of physical activity on physeal and skeletal development. *JBJS Rev*. 2021 Oct 12;9(10). doi:10.2106/JBJS.RVW.21.00060. PMID:34637401.

**Cavinatto L**, **Khatib O**, **Martusiewicz A**, **\*Koueiter DM**, **Wiater BP**, **Wiater JM**. Radiographic evaluation of humeral head reconstruction with stemmed and stemless spherical implants compared with stemless elliptical head implants. *JSES Int*. 2021 May 23;5(5):889-893. doi:10.1016/j.jseint.2021.04.015. PMID:34505101.

Chang NB, Bicknell R, Krupp R, **Wiater JM**, Levy J, Athwal GS. Sex-related differences in stemless total shoulder arthroplasty. *JSES Int*. 2021 Oct 29;6(1):26-31. doi:10.1016/j.jseint.2021.09.008. PMID:35141672.

**Ciufo DJ**, **\*Baker EA**, **Gehrke CK**, **Vaupel ZM**, **Fortin PT**. Tibial torsion correlates with talar morphology. *Foot Ankle Surg*. 2021 Apr 18:S1268-7731(21)00085-0. doi:10.1016/j.fas.2021.04.007. PMID:33888396.

Claus CF, Tong D, Lytle E, Bahoura M, Garmo L, Li C, Park P, et al, **[Easton R]**. Age as a predictor for complications and patient-reported outcomes in multilevel transforaminal lumbar interbody fusions: Analyses From the Michigan Spine Surgery Improvement Collaborative (MSSIC). *Spine (Phila Pa 1976)*. 2021 Mar 15;46(6):356-365. doi:10.1097/BRS.0000000000003792. PMID:33620179.

Dibbern KN, Li S, Vivtcharenko V, **Auch E**, Lintz F, Ellis SJ, et al. Three-dimensional distance and coverage maps in the assessment of peritalar subluxation in progressive collapsing foot deformity. *Foot Ankle Int.* 2021 Jun;42(6):757-767. doi:10.1177/1071100720983227. PMID:33504217.

**Dunne KF**, Knesek M, Tjong VK, Riederman BD, Cogan CJ, et al. Arthroscopic treatment of type II superior labral anterior to posterior (SLAP) lesions in a younger population: Minimum 2-year outcomes are similar between SLAP repair and biceps tenodesis. *Knee Surg Sports Traumatol Arthrosc.* 2021 Jan;29(1):257-265. doi:10.1007/s00167-020-05971-0. PMID:32253479.

Elabd A, Khalifa R, Alam Z, **Saleh ES**, Thabet AM, Abdelgawad A. Operative fixation of pediatric forearm fractures: Does the fracture location matter? *Adv Orthop.* 2021 Oct 16;2021:9973449. doi:10.1155/2021/9973449. PMID:34697573.

**El-Zein ZS, Gehrke CK, Croley JS, Siljander MP, Mallow MA, Flierl MA**, et al, [**Verner JJ, \*Baker EA**]. Assessing taper geometry, head size, head material, and their interactions in taper fretting corrosion of retrieved total hip arthroplasty implants. *J Arthroplasty.* 2021 Jul;36(7S):S386-S394.e4. doi:10.1016/j.arth.2021.02.041. PMID:33832796.

Fakunle O, **Farley KX**, DeMaio EL, Gottschalk MB, Wagner ER, Daly CA. When is it safe to operate after therapeutic carpal tunnel injections? *Hand (N Y).* 2021 Jun 9:15589447211017229. doi:10.1177/15589447211017229. PMID:34105384.

**Farley KX**, Fakunle OP, Spencer CC, Gottschalk MB, Wagner ER. The association of preoperative opioid use with revision surgery and complications following carpometacarpal arthroplasty. *J Hand Surg Am.* 2021 Nov;46(11):1025.e1-1025.e14. doi:10.1016/j.jhsa.2021.02.021. PMID:33875281.

**Farley KX**, Wilson JM, Kumar A, Gottschalk MB, Daly C, Sanchez-Sotelo J, et al. Prevalence of shoulder arthroplasty in the United States and the increasing burden of revision shoulder arthroplasty. *JB JS Open Access.* 2021 Jul 14;6(3):e20.00156. doi:10.2106/JBJS.OA.20.00156. PMID:34278185.

**Farley KX**, Wilson JM. Determining the association of preoperative controlled prescription medication use with outcomes after total knee arthroplasty. *JAMA Netw Open.* 2021 Jun 1;4(6):e2114785. doi:10.1001/jamanetworkopen.2021.14785. PMID:34181017.

**Faruqi T, Green A, McCall DP, Caid M, Smith LC**. Polyarticular haemophilus influenza septic arthritis in an HIV Patient. *Cureus.* 2021 Dec 4;13(12):e20160. doi:10.7759/cureus.20160. PMID:35003989.

**Feng JE**, Ikwuazom CP, Mahure SA, Waren DP, Slover JD, Schwarzkopf RS, et al. Discontinuation of the liposomal delivery of bupivacaine has no effect on pain management after primary total knee arthroplasty: No effect on pain scores, opioid consumption, or functional status. *Bone Joint J.* 2021 Jun;103-B (6 Suppl A):102-107. doi:10.1302/0301-620X.103B6.

**Feng JE**, Ikwuazom CP, Slover JD, Macaulay W, Schwarzkopf R, Long WJ. Discontinuation of intraoperative liposomal bupivacaine in primary THA does not clinically change postoperative subjective pain, opioid consumption, or objective functional status. *J Arthroplasty.* 2021 Jun;36(6):2062-2067. doi:10.1016/j.arth.2021.01.064. PMID:33610407.

**Feng JE**, Ikwuazom CP, Umeh UO, Furgiuele DL, Slover JD, Macaulay W, et al. Adductor canal blocks reduce inpatient opioid consumption while maintaining noninferior pain control and functional outcomes after total knee arthroplasty. *J Arthroplasty.* 2021 Jun;36(6):1980-1986. doi:10.1016/j.arth.2021.01.065. PMID:33618955.

**Flikkema K, Brossy K.** Parsonage-Turner syndrome after COVID-19 vaccination: A case report. *JBJS Case Connect.* 2021 Dec 22;11(4). doi:10.2106/JBJS.CC.21.00577. PMID:34936579.

Friedman LGM, Sanchez D, Zachos TA, Marcantonio A, **Audet M**, Vallier H, et al. Potential benefits of limited clinical and radiographic follow-up after surgical treatment of ankle fractures. *J Am Acad Orthop Surg Glob Res Rev.* 2021 May 11;5(5):e21.00074. doi:10.5435/JAAOSGlobal-D-21-00074. PMID:33974571.

**Gandhi S, Newton M, Salisbury M, \*Baker KC.** Technical experience and postoperative complications with repeat transperitoneal approach to the lumbar spine in female Lewis rats. *Lab Anim.* 2021 Feb;55(1):81-87. doi:10.1177/0023677220930043. PMID:32539492.

Gilligan C, Volschenk W, Russo M, Green M, Gilmore C, Mehta V, et al, **[Fischgrund J]**. An implantable restorative-neurostimulator for refractory mechanical chronic low back pain: A randomized sham-controlled clinical trial. *Pain.* 2021 Oct 1;162(10):2486-2498. doi:10.1097/j.pain.0000000000002258. PMID:34534176.

Goodnough LH, Salazar BP, **Furness J, Feng JE**, DeBaun MR, Campbell ST, et al, **[Grant KD]**. How are peri-implant fractures below short versus long cephalomedullary nails different? *Eur J Orthop Surg Traumatol.* 2021 Apr;31(3):421-427. doi:10.1007/s00590-020-02785-1. PMID:32909108.

**Green AM, Gemayel A, Silberg E.** Crystalline-induced arthropathy following total knee replacement. *Cureus.* 2021 Aug 31;13(8):e17619. doi:10.7759/cureus.17619. PMID:34646670.

Gudeman AS, **Hinckel BB**, Oladeji L, Ray TE, Gersoff W, Farr J, et al. Evaluation of commercially available knee cartilage restoration techniques stratified by FDA approval pathway. *Am J Sports Med.* 2021 Sep 15:3635465211037233. doi:10.1177/03635465211037233. PMID:34524032.

Hamilton T, Macki M, Oh SY, Bazydlo M, Schultz L, Zakaria HM, et al, **[Khalil JG, Easton R]**. The association of patient education level with outcomes after elective lumbar surgery: A Michigan Spine Surgery Improvement Collaborative study. *J Neurosurg Spine.* 2021 Dec 10:1-9. doi:10.3171/2021.9.SPINE21421. PMID:34891131.

Harada GK, **Khan JM**, Vetter C, Basques BA, Sayari AJ, Hayani Z, et al. Does the number of levels fused affect spinopelvic parameters and clinical outcomes following posterolateral lumbar fusion for low-grade spondylolisthesis? *Global Spine J.* 2021 Jan;11(1):116-121. doi:10.1177/2192568220901527. PMID:32875855.

Hill BW, Singh AM, **Astolfi M**, Horneff JG, Schoch BS, Abboud JA. Outcomes of rotator cuff repair with concurrent microfracture of focal glenohumeral osteoarthritis. *J Shoulder Elbow Surg.* 2021 Jul;30(7S):S66-S70. doi:10.1016/j.jse.2021.04.008. PMID:33892120.

**Hinckel BB**, Thomas D, Vellios EE, Hancock KJ, Calcei JG, Sherman SL, et al. Algorithm for treatment of focal cartilage defects of the knee: Classic and new procedures. *Cartilage.* 2021 Dec;13(Suppl 1):473S-495S. doi:10.1177/1947603521993219. PMID:33745340.

Jay JH, **Runge NE**, Vergara FH, Sabatini CS, Oni JK. An analysis of online ratings of pediatric orthopaedic surgeons. *J Pediatr Orthop.* 2021 Oct 1;41(9):576-579. doi:10.1097/BPO.0000000000001932. PMID:34387231.

Koreckij T, Kreiner S, **Khalil JG**, Smuck M, Markman J, Garfin S, et al. Prospective, randomized, multicenter study of intraosseous basivertebral nerve ablation for the treatment of chronic low back

pain: 24-Month treatment arm results. *N Am Spine Soc J*. 2021 Oct 26, 8:100089. doi:10.1016/j.xnsj.2021.100089. PMID:35141653.

Kugelman DN, Mahure SA, **Feng JE**, Rozell JC, Schwarzkopf R, Long WJ. Total knee arthroplasty is associated with greater immediate post-surgical pain and opioid use than total hip arthroplasty. *Arch Orthop Trauma Surg*. 2021 May 15. doi:10.1007/s00402-021-03951-8. PMID:33991234.

Kurkis G, Wilson JM, Anastasio AT, **Farley KX**, Bradbury TL. Preoperative diagnosis of depression leads to increased opioid tablets taken after total hip arthroplasty: A prospective study. *J Surg Orthop Adv*. 2021 Fall;30(3):144-149. PMID:34591002.

Levine WN, **Fischgrund JS**. JAAOS rebranding completed and other achievements. *J Am Acad Orthop Surg*. 2021 Jan 1;29(1):1-2. doi:10.5435/JAAOS-D-20-01189. PMID:33347005.

Lim S, Yeh HH, Macki M, Mansour T, Schultz L, Telemi E, et al, **[Park P, Easton R, Khalil J]**. Preoperative HbA1c > 8% is associated with poor outcomes in lumbar spine surgery: A Michigan Spine Surgery Improvement Collaborative Study. *Neurosurgery*. 2021 Oct 13;89(5):819-826. doi:10.1093/neuros/nyab294. PMID:34352887.

Macki M, Hamilton T, Lim S, Telemi E, Bazydlo M, Nerenz DR, et al, **[Khalil JG, Park P]**. Disparities in outcomes after spine surgery: A Michigan Spine Surgery Improvement Collaborative study. *J Neurosurg Spine*. 2021 May 7:1-9. doi:10.3171.

Maerz T, Nepple JJ, Bedi A, **Zaltz I**, Belzile É, Beulé PE, et al. Sex differences in clinical outcomes following surgical treatment of femoroacetabular impingement. *J Bone Joint Surg Am*. 2021 Mar 3;103(5):415-423. doi:10.2106/JBJS.20.00394. PMID:33439607.

Maerz T, **Newton MD**, Fleischer M, **Hartner SE**, Gawronski K, Junginger L, et al, **[\*Baker KC]**. Traumatic joint injury induces acute catabolic bone turnover concurrent with articular cartilage damage in a rat model of posttraumatic osteoarthritis. *J Orthop Res*. 2021 Sep;39(9):1965-1976. doi:10.1002/jor.24903. PMID:33146410.

Mawn JG, Amin RM, Harrell J, **Runge N**, Hollifield L, Lopez J, et al. Perceptions of financial conflict of interest and knowledge of the Sunshine Act among orthopedic surgery patients. *Orthopedics*. 2021 Sep-Oct;44(5):e682-e686. doi:10.3928/01477447-20210818-01. PMID:34590959.

**Mills S**, Burroughs KE. Legg Calve Perthes disease. 2021 Jul 13. Treasure Island, FL. StatPearls Publishing, 2021 Jan-. PMID:30020602.

Nazzal EM, Wilson JM, **Farley KX**, Schwartz AM, Xerogeanes JW. Association of preoperative opioid use with complication rates and resource use in patients undergoing hip arthroscopy for femoroacetabular impingement. *Orthop J Sports Med*. 2021 Nov 22;9(11):23259671211045954. doi:10.1177/23259671211045954. PMID:34881336.

Oliveira S, Andrade R, **Hinckel BB**, Silva F, Espregueira-Mendes J, Carvalho Ó, et al. In vitro and in vivo effects of light therapy on cartilage regeneration for knee osteoarthritis: A systematic review. *Cartilage*. 2021 Dec;13(Suppl 2):1700S-1719S. doi:10.1177/19476035211007902. PMID:33855869.

**Rapp CM**, **\*Koueiter DM**, **Bojnowski J**, **Kalma J**, **Wiater B**, **Kurziel MD**, et al, **[Wiater JM]**. Are suture tape knots as secure as standard suture? A biomechanical study. *Orthop J Sports Med*. 2021 Oct 19;9(10):23259671211045411. doi:10.1177/23259671211045411. PMID:34692881.

Rojas EO, Barbachan Mansur NS, Dibbern K, Lalevee M, **Auch E**, Schmidt E, et al. Weightbearing computed tomography for assessment of foot and ankle deformities: The Iowa experience. *Iowa Orthop J.* 2021;41(1):111-119. PMID:34552412.

Roof MA, Sharan M, Merkow D, **Feng JE**, Long WJ, Schwarzkopf RS. High-volume revision surgeons have better outcomes following revision total knee arthroplasty. *Bone Joint J.* 2021 Jun;103-B (6 Suppl A):131-136. doi:10.1302/0301-620X.103B6.

Roof MA, Sullivan CW, **Feng JE**, Anoushiravani AA, Waren D, Friedlander S, et al. Inpatient opioid consumption variability following total knee arthroplasty: Analysis of 4,038 procedures. *J Knee Surg.* 2021 Sep;34(11):1196-1204. doi:10.1055/s-0040-1702183. PMID:32311746.

Ross JR, Clohisy JC, Bedi A, **Zaltz I**. Why does hip arthroscopy fail? Indications and PEARLS for revision success. *Sports Med Arthrosc Rev.* 2021 Mar 1;29(1):44-51. doi:10.1097/JSA.000000000000300. PMID:33395230.

Rund JM, **Hinckel BB**, Sherman SL. Acute patellofemoral dislocation: Controversial decision-making. *Curr Rev Musculoskelet Med.* 2021 Feb;14(1):82-87. doi:10.1007/s12178-020-09687-z. PMID:33523411.

Sabesan VJ, Lima DJL, Goss L, Gauger M, **Whaley JD**, Ghisa C, et al. Does Medicaid payer status affect patient's shoulder outcomes after shoulder arthroplasty? *Musculoskelet Surg.* 2021 Apr;105(1):43-47. doi:10.1007/s12306-019-00627-w. PMID:31712979.

**Saleh ES**. A new pediatric Monteggia fracture type 4 variant. *Journal of Orthopaedic Case Reports.* 2021 Oct 10;11(10), p.17-30. doi:10.13107/jocr.2021.v11.i10.2488

**Saleh ES**. Pediatric obturator internus muscle myxoma. *J Am Acad Orthop Surg Glob Res Rev.* 2021 Jan 19;5(1):e20.00099. doi:10.5435/JAAOSGlobal-D-20-00099. PMID:33475306.

**Saleh ES**, Elabd A. Pediatric calcaneal tuberosity avulsion fracture: A case report and literature review. *J Orthop Case Rep.* 2021 Mar;11(3):25-28. doi:10.13107/jocr.2021.v11.i02.2072. PMID:34239824.

**Saleh ES, Vasileff CC, Omari AM, Khalil JG**. The diagnosis and management of pediatric spine infections. *Cureus.* 2021 Jul 30;13(7):e16748. doi:10.7759/cureus.16748. PMID:34345570.

Schwartz AM, Wilson JM, **Farley KX**, Bradbury TL Jr, Guild GN 3rd. New-onset depression after total knee arthroplasty: Consideration of the at-risk patient. *J Arthroplasty.* 2021 Sep;36(9):3131-3136. doi:10.1016/j.arth.2021.04.008. PMID:33934951.

**Seidman A, Green A, McCall D, Finch J, Smith LC**. Intraoperative tibia fractures during primary total knee arthroplasty. *Cureus.* 2021 Aug 9;13(8):e17017. doi:10.7759/cureus.17017. PMID:34522498.

**Seidman AJ**, Siccardi MA. Postpartum pubic symphysis diastasis. 2021 Jul 23. Treasure Island, FL. StatPearls Publishing, 2021 Jan. PMID:30725728.

Sheppard WL, **Hinckel BB**, Arshi A, Sherman SL, Jones KJ. Accurate reporting of concomitant procedures is highly variable in studies investigating knee cartilage restoration. *Cartilage.* 2021 Jul;12(3):333-343. doi:10.1177/1947603519841673. PMID:30971096.

**Smith JT, Jee Y, Daley E, Koueiter DM, Beck M, Zaltz I.** Can the femoro-epiphyseal acetabular roof (FEAR) index be used to distinguish dysplasia from impingement? *Clin Orthop Relat Res.* 2021 May 1;479(5):962-971. doi:10.1097/CORR.0000000000001610. PMID:33394581.

Smuck M, **Khalil J**, Barrette K, Hirsch JA, Kreiner S, Koreckij T, et al. Prospective, randomized, multicenter study of intraosseous basivertebral nerve ablation for the treatment of chronic low back pain:12-month results. *Reg Anesth Pain Med.* 2021 Aug;46(8):683-693. doi:10.1136.

Stewart R, Hobbs K, Dixon K, Navarrete RA, **Khan J**, Petrusis ME, et al. Perceptions of quality of communication in family interactions in neurocritical care. *Health Sci Rep.* 2021 Oct 22;4(4):e411. doi:10.1002/hsr2.411. PMID:34722935.

Tesoriero P, **Feng JE**, Anoushiravani AA, Kiproviski K, Marwin S, Wiznia D. Diagnosis of Guillain-Barré syndrome after total hip arthroplasty: A case report. *JBJS Case Connect.* 2021 May 27;11(2). doi:10.2106/JBJS.CC.20.00848. PMID:34038913.

Wagner ER, Woodmass JM, Zimmer ZR, Welp KM, Chang MJ, Prete AM, et al, **[Farley KX]**. Needle diagnostic arthroscopy and magnetic resonance imaging of the shoulder have comparable accuracy with surgical arthroscopy: A prospective clinical trial. *Arthroscopy.* 2021 Jul;37(7):2090-2098. doi:10.1016/j.arthro.2021.03.006. PMID:33798653.

Wilson JM, **Farley KX**, Broida SE, Bradbury TL, Guild GN. Metformin use is associated with fewer complications in patients with type-2 diabetes undergoing total knee arthroplasty: A propensity score-matched analysis. *J Bone Joint Surg Am.* 2021 Apr 7;103(7):601-608. doi:10.2106/JBJS.20.01535. PMID:33787554.

Wilson JM, Pflederer JA, Schwartz AM, **Farley KX**, Reimer NB. Intraoperative radiographic detection of intrapelvic acetabular screw penetration: Lessons learned from our trauma colleagues. *Arthroplast Today.* 2021 Apr 15;8:226-230. doi:10.1016/j.artd.2021.02.011. PMID:33937463.

Wilson JM, Schwartz AM, **Farley KX**, Erens GA, Bradbury TL, Guild GN. The impact of preoperative tramadol-only use on outcomes following total knee arthroplasty: Is tramadol different than traditional opioids? *Knee.* 2021 Jan;28:131-138. doi:10.1016.

Wilson JM, Schwartz AM, **Farley KX**, Erens GA. The cost of getting in: Is it time for change in the adult reconstruction fellowship application process? *Arthroplast Today.* 2021 Feb 26, 8:278-282.e1. doi:10.1016/j.artd.2021.01.008. PMID:34095404.

**Wright JO, Gehrke CK, Wiater JM, Weisz KM, \*Baker EA.** Applying the new shoulder periprosthetic joint infection consensus definition to a case series of revision shoulder arthroplasty procedures to assess concordance between consensus definitions and diagnoses. *Semin Arthroplasty.* 2021 Sept;31(3):571-580. doi:10.1053/j.sart.2021.03.007

Yamaguchi JT, Weiner JA, Minardi S, Greene AC, Ellenbogen DJ, Hallman MJ, et al, **[Weisz KM]**. Characterizing the host response to rhPDGF-BB in a rat spinal arthrodesis model. *JOR Spine.* 2021 Oct 7;4(4):e1173. doi:10.1002/jsp2.1173. PMID:35005440,

**Zakko P, Kasir R,** Chen NW, **Park D.** Dysphagia weakly correlates with other patient-reported outcomes after anterior cervical discectomy and fusion. *Cureus.* 2021 Dec 27;13(12):e20742. doi:10.7759/cureus.20742. PMID:35111434.



### **Book Chapter or Full Book Publications:**

**Hinckel BB**, Baumann CA, Fulkerson JP. Tibial tuberosity osteotomies. Evidence-Based Management of Complex Knee Injuries. St. Louis, MO. Elsevier, 2021;p.321-5.

Sherman SL, Rund JM, **Hinckel BB**, Farr J. Patellar instability. Lower Extremity Joint Preservation. Cham:Springer, 2021. p231-254.

Tanaka MJ, **Hinckel BB**, Siljander B, Arndt EA. Patellofemoral anatomy and its surgical implications. Evidence-Based Management of Complex Knee Injuries. St. Louis, MO: Elsevier, 2021, p301-8.

### **Abstracts with Associated Research Publications:**

**Kasir R, Lundgren M, Detwiler A**, Chen N, **Whaley J, Gael S**, et al, **[Park D]**. Does day of surgery affect length of hospital stay after spine surgery. Apr 8–10, 2021. 14th Lumbar Spine Research Society Annual Scientific Meeting. J Neurosurg Spine. 2021 Apr 1;34(4):1-103. doi:10.3171/2021.3.LSRS2021abstracts. PMID:33794487. Virtual.

**Pestano C, Easton RW, Ahlgren B, Vibert B, Papakonstantinou NS, Lipphardt M**, et al, **[Silvasi D, Smith G]**. Modest cost reduction associated with initial ERAS implementation in lumbar spine fusion. Spine Journal 2021;21(9):S100-S100. <https://doi.org/10.1016/j.spinee.2021.05.404>

Smith JT, Jee Y, **\*Koueiter D, Zaltz I**. Evaluating stability in borderline hip dysplasia using the femoro-epiphyseal acetabular roof index. Arthroscopy. 2021 Jan 1;37(1):e53-4.

### **Invited Research Presentations:**

**Auch EC**, Mansur N, Li S, Dibbern K, Femino J, Baumfeld D, et al. Posterior and middle facets of the subtalar joint: The retrospective search for an early sign of peritalar subluxation and progressive flatfoot deformity. Mid-America Orthopaedic Association. 38th Annual Meeting. 2021 Sep 29-Oct 3, Amelia Island, FL.

**Auch EC**, Martins FS, Vivtcharenko V, Schmidt E, Li S, Godoy-Santos AL, et al. Percutaneous distal metatarsal mini-invasive osteotomy: Comparison between standard vs modified intraosseous approach - a cadaveric study. Mid-America Orthopaedic Association. 38th Annual Meeting. 2021 Sep 29-Oct 3, Amelia Island, FL.

**\*Baker EA, Zakko P, Huber C, Gehrke C, Flierl M**. Diagnosing total joint arthroplasty-associated periprosthetic joint infections in immunocompromised patient populations. Orthopaedic Research Society, ORS 2021 Annual Meeting. 2021 Feb 12-16. Virtual.

**\*Baker KC, Hartner S**, Fleischer MM, **Newton MD, Acker WB, Altman P**, et al, **[Bush C, \*Maerz T]**. Modulation of the acute post-anterior cruciate ligament rupture intra-articular environment via recruitment of marrow-derived stem cells to promote bone tunnel healing in ACL reconstruction. American Academy of Orthopaedic Surgeons. 2021 Annual Meeting. 2021 Aug 29- Sep 3, San Diego, CA.

**El-Zein ZS, Diamond S**, Bohr M, **\*Baker EA**, Fleischer MM, **Gehrke C**, et al, **[Fortin PT, Vaupel Z]**. The routine use and cost analysis of acid-fast bacilli and fungal cultures in foot and ankle surgery: A retrospective study. American Academy of Orthopaedic Surgeons. 2021 Annual Meeting. 2021 Aug 29- Sep 3, San Diego, CA.

**Fischgrund J.** Excellence in translational science presentation: From theory to reality, a 15 year journey to develop a new treatment for chronic low back pain. Pacific Spine Pain Society. 2021 PSPS Annual Meeting. 2021 Sep 10-12, Las Vegas, NV

**Gehrke C,** Friedman V, **Huber C, Zakko P,** Sims M, **Flierl M.** Intraoperative purulence as a criteria in diagnosing periprosthetic joint infection in total joint arthroplasty. Orthopaedic Research Society, ORS 2021 Annual Meeting. 2021 Feb 12-16. Virtual.

Hasan S, Waheed M, Braithwaite C, **Khalil JG, Saleh ES.** Pediatric cervical spine trauma: A 10-year single center retrospective study. Orthopedic Surgery Research Symposium for Medical Students. Beaumont Hospital, Royal Oak, MI. 2021 Dec 1.

**Kasir R,** Schultz L, **Easton RW,** Chang V, **Khalil J.** The surgical treatment of cervical myelopathy in patients who ambulate independently, ambulate with assistive devices, or are wheelchair bound: A Michigan spine surgery improvement collaborative study. American Academy of Orthopaedic Surgeons. 2021 Annual Meeting. 2021 Aug 29- Sep 3, San Diego, CA.

**Swank K, Furness J, \*Baker EA, Gehrke C, Rohde RS.** Musculoskeletal injuries and conditions in the orthopaedic surgeon: A survey. American Academy of Orthopaedic Surgeons. 2021 Annual Meeting. 2021 Aug 29- Sep 3, San Diego, CA.

Wallington DG, Albright PD, **Chrumka AI,** Funk RD, Rowe DE, Weistroffer JK, et al. Stability of the sacral table angle in pediatric patients with spinal pathology. Mid-America Orthopaedic Association. 38th Annual Meeting. 2021 Sep 29-Oct 3, Amelia Island, FL.

**Zakko P, Baker EA, Huber CM, Gehrke C,** Friedman BJ, **Flierl MA.** Diagnosing total joint arthroplasty-associated periprosthetic joint infections in immunocompromised patient populations. American Academy of Orthopaedic Surgeons. 2021 Annual Meeting. 2021 Aug 29- Sep 3, San Diego, CA.

**Zakko P, Kasir R,** Chen NW, **Park D.** Dysphasia should be reported as a separate legacy outcome measure after anterior cervical discectomy and fusion. American Academy of Orthopaedic Surgeons, AAOS 2021 Annual Meeting. 2021 Sept 3. Virtual.

#### **Multimedia:**

**El-Zein ZS, Ciufu D, Fortin PT, Smith JT.** Total talus arthroplasty. American Academy of Orthopaedic Surgeons, Orthopaedic Video Theater. 2021 Aug 25.

#### **Non-Peer Reviewed Research Publications:**

**Hartner SE, Newton MD,** Fleischer MM, **\*Baker KC, \*Maerz T.** Early patellofemoral cartilage and bone degeneration in a rat model of noninvasive anterior cruciate ligament rupture. bioRxiv. 2021 Jan 1.

# PATHOLOGY AND LABORATORY MEDICINE

## Peer Reviewed Articles:

Alhamar M, Jabbar A, **Deebajah M**, Diaz M, Alanee S, Hassan O, et al. Prognostic significance of histomorphologic features of lymph node metastases in prostate cancer patients treated with radical prostatectomy: A single center study. *Urol Oncol*. 2021 Dec;39(12): 829.e1-829.e8. doi:10.1016/j.urolonc.2021.03.018. PMID:33985876.

Alrajjal A, **Pansare V**, Choudhury MSR, Khan MYA, Shidham VB. Squamous intraepithelial lesions (SIL: LSIL, HSIL, ASCUS, ASC-H, LSIL-H) of uterine cervix and Bethesda System. *Cytojournal*. 2021 Jul 17;18:16. doi:10.25259/Cytojournal\_24\_2021. PMID:34345247.

Anusim N, **Douglas-Nikitin V**, Jaiyesimi I. Pernicious anemia presenting as pancytopenia. *eJHaem*. 2021 Nov;2(4):861-2.

Anusim A, Gbadebo D, **Afolayan-Oloye O**, Jaiyesimi I. Durable remission with immunotherapy in a patient with sarcomatoid renal cell carcinoma. *J Kidney Cancer VHL*. 2021 Oct 26;8(4):38-42. doi:10.15586/jkcvhl.v8i4.168. PMID:34765405.

Anusim N, **Gupta A**, Howard G, Jaiyesimi I. Extranodal blastoid/pleomorphic variant of mantle cell lymphoma involving the testis and skin. *BMJ Case Rep*. 2021 Jan 28;14(1):e239014. doi:10.1136.

Arenas GA, **Tang NY**, Mueller A, Lopes Perdigao J, Kaur H, Abramowicz JS, et al. Use of the angiogenic biomarker profile to risk stratify patients with fetal growth restriction. *Am J Obstet Gynecol MFM*. 2021 Jul;3(4):100394. doi:10.1016/j.ajogmf.2021.100394. PMID:33991706.

Bahl A, Johnson S, **Maine G**, Garcia MH, Nimmagadda S, Qu L, et al. Vaccination reduces need for emergency care in breakthrough COVID-19 infections: A multicenter cohort study. *Lancet Reg Health Am*. 2021 Dec;4:100065. doi:10.1016/j.lana.2021.100065. PMID:34522911.

Balinski AM, Khatter NJ, Gold NJ, Pothugunta KS, Garlapaty VK, Rankin SM, et al, **[Thorburn C]**. Treatment-resistant hypercalcemia from ectopic PTH hypersecretion suspected secondary to disseminated ovarian cancer. *Am J Med Case Reports* 2021 9(10): 512-515. doi:10.12691/ajmcr-9-10-9.

Bansal S, Tokman S, Fleming T, **Maine GN**, Sanborn K, Hachem R, et al. SARS-CoV-2 infection in lung transplant recipients induces circulating exosomes with SARS-CoV-2 spike protein S2. *Clin Transl Med*. 2021 Nov;11(11):e576. doi:10.1002/ctm2.576. PMID:34841719

Dekhou A, Rehman R, Parzen JS, Quinn TJ, **Zhang PL**, Rontal M, et al. Primary parotid tumor thrombosis: Immunohistologic features and awareness of metastatic potential. *Cureus*. 2021 Jul 4;13(7):e16174. doi:10.7759/cureus.16174. PMID:34367782.

Dupont E, Tsangaris T, Garcia-Cantu C, Howard-McNatt M, Chiba A, Berger AC, et al, **[Walters LL]**. Resection of cavity shave margins in stage 0-iii breast cancer patients undergoing breast conserving surgery: A prospective multicenter randomized controlled trial. *Ann Surg*. 2021 May 1;273(5):876-881. doi:10.1097/SLA.0000000000003449. PMID:31290763.

Evans MG, Medeiros LJ, Marques-Piubelli ML, Wang HY, Ortiz-Hidalgo C, Pina-Oviedo et al, **[Amin MB]**. Breast implant-associated anaplastic large cell lymphoma: Clinical follow-up and analysis of

sequential pathologic specimens of untreated patients shows persistent or progressive disease. *Mod Pathol.* 2021 Dec;34(12):2148-2153. doi:10.1038/s41379-021-00842-6. PMID:34155351.

Gill I, Shaheen AA, Edhi AI, **Amin M**, Rana K, Cappell MS. Novel case report: A previously reported, but pathophysiologically unexplained, association between collagenous colitis and protein-losing enteropathy may be explained by an undetected link with collagenous duodenitis. *Dig Dis Sci.* 2021 Dec;66(12):4557-4564. doi:10.1007/s10620-020-06804-3. PMID:33537921.

Gill I, Shams C, Quiroz E, **Krishnan SM**, Gaikazian S. Large cell neuroendocrine tumor of the gastrointestinal tract with concurrent tubular adenomas. *Gazz Med Ital Arch Sci Med.* 2021 Sept;180(9):498-502. doi:10.23736/S0393-3660.20.04399-5.

Golas VL, **Lao KM**, Misuraca MS, Li W, Marrone MG, **Kanaan HD**, et al, **[Zhang PL]**. The clinical features of overlap syndrome (ANCA-associated crescentic glomerulonephritis [AACGN] and immune complex-mediated glomerulonephritis) are similar to those of AACGN alone. *Int Urol Nephrol.* 2021 Mar;53(3):515-521. doi:10.1007/s11255-020-02654-0. PMID:33025405.

Hanna A, Gjeorgjievski M, **Amin M**, Cappell MS. Novel case report of hypopharyngeal, extra-esophageal cancer first visualized and diagnosed by a gastroenterologist at esophagogastroduodenoscopy with endoscopic biopsies. *ACG Case Rep J.* 2021 Mar 12;8(3):e00543. doi:10.14309/crj.0000000000000543. PMID:33718508.

Kim SK, Vishweswaraiah S, **Macknis J**, Yilmaz A, Lalwani A, Mishra NK, et al. New-onset postpartum preeclampsia: Epigenetic mechanism and prediction. *J Matern Fetal Neonatal Med.* 2021 Aug 10:1-9. doi:10.1080/14767058.2021.1946504. PMID:34374309.

Madanat L, Schoenherr D, **Wey E**, Gupta R. Rasburicase-induced haemolysis and methemoglobinemia: An ongoing issue. *BMJ Case Rep.* 2021 Mar 16;14(3):e240967. doi:10.1136.

Mankuzhy NP, Almahariq MF, Ye H, **Amin M**, Stone B, Krauss DJ. Investigation of the prognostic significance of neuroendocrine differentiation in Gleason score 7 to 10 prostate adenocarcinoma in patients with distant metastasis after definitive radiotherapy. *Am J Clin Pathol.* 2021 May 18;155(6):879-886. doi:10.1093/ajcp/aqaa199. PMID:33283224.

McMullen-Tabry ER, Schechter SA, **Wang GY**, Sciallis AP, Hrycaj SM, Chan MP, et al. p53/CK17 dual stain improves accuracy of distinction between differentiated vulvar intraepithelial neoplasia and its mimics. *Int J Gynecol Pathol.* 2021 Nov 12;41(3).Online. doi:10.1097/PGP.0000000000000838. PMID:35444146

Molina GA, Rojas CL, Aguayo WG, Moyon MA, Gálvez P, **Polanco EC**, et al. Appendiceal hernia: An extremely rare condition. *Ann R Coll Surg Engl.* 2021 Feb;103(2):e50-e52. doi:10.1308.

Puzyrenko A, **Wang D**, Schneider R, Wallace G, Schreiber S, Brandt K, et al. Urine drug screening in the era of designer benzodiazepines: Comparison of three immunoassay platforms, Lc-Qtof-Ms, and Lc-Ms/Ms. *J Anal Toxicol.* 2021 Sep 24:bkab108. doi:10.1093/jat/bkab108. PMID:34557900.

**Qu Z**, Zhao K, Jin JG, Qu E, **Lai Z**. A novel method enables general pathologists to create web dynamic forms for synoptic tumor reporting. *Arch Pathol Lab Med.* 2021 Jul 1;145(7):864-870. doi:10.5858.

Radhakrishna U, Vishweswaraiah S, Uppala LV, Szymanska M, **Macknis J**, **Kumar S**, et al. Placental DNA methylation profiles in opioid-exposed pregnancies and associations with the neonatal

opioid withdrawal syndrome. *Genomics*. 2021 Mar 9;113(3):1127-1135. doi:10.1016/j.ygeno.2021.03.006. PMID:33711455.

Rockmore J, McIntosh G, **Pui JC**, Mohammaed S, Elgin R. A rare primary osteogenic sarcoma of the prostate and bladder. *Cureus*. 2021 Jun 16;13(6):e15689. doi:10.7759/cureus.15689. PMID:34277278.

Rosado M, Serena T, **Pui J**, Parmely J. A case report of a ruptured Meckel's diverticulum with ectopic gastric and pancreatic tissue with negative computed tomography. *Int J Surg Case Rep*. 2021 Jun;83:105994. doi:10.1016/j.ijscr.2021.105994. PMID:34098189.

Salita A, Rosado M, Mack K, **Pui J**, Zekman R, Dinnan K. Metastatic lobular carcinoma of the breast found incidentally on pathology following cholecystectomy for chronic cholecystitis: A case report. *Int J Surg Case Rep*. 2021 Mar, 80:105612. doi:10.1016/j.ijscr.2021.01.106. PMID:33636408.

Serena TJ, Solomon Schnurr CA, **Pui JC**, Gerken JR. Surgical excision of sclerosing mesenteritis, exploration of an unknown mesenteric mass. *Cureus*. 2021 Jan 7;13(1):e12546. doi:10.7759/cureus.12546. PMID:33564540.

Shaheen AA, Gill I, Edhi AI, **Amin M**, Cappell MS. Pancreatic ganglioneuroma presenting in an octogenarian. *ACG Case Rep J*. 2021 Mar 19;8(3):e00546. doi:10.14309/crj.0000000000000546. PMID:33763500.

Sims M, Podolsky RH, **Maine GN**, Kennedy RH, Homayouni R. Reply to Escandon. *Clin Infect Dis*. 2021 Dec 6;73(11):2149-2150. doi:10.1093/cid/ciab258. PMID:33754636.

Sims MD, **Maine GN**, Childers KL, Podolsky RH, Voss DR, Berkiw-Scenna N, et al. Coronavirus disease 2019 (COVID-19) seropositivity and asymptomatic rates in healthcare workers are associated with job function and masking. *Clin Infect Dis*. 2021 Jul 30;73(Suppl 2):S154-S162. doi:10.1093/cid/ciaa1684. PMID:33150375.

Snajdar E, Ajo AR, Rosen K, Miller R, Mohammed S, Gordon C, et al, [**Pui JC**]. Primary malignant melanoma of the urinary bladder. *Cureus*. 2021 Mar 23;13(3):e14067. doi:10.7759/cureus.14067. PMID:33898150.

**Sykes E**. Commentary on weakness and low potassium in a 47-year-old male. *Clin Chem*. 2021 Jul 6;67(7):944-945. doi:10.1093/clinchem/hvab037. PMID:34229340.

**Tang NY**, Datoru AD, van Wijk XMR. Short-term analytical imprecision for a fifth generation cardiac troponin T assay does not exceed rule-in and rule-out thresholds of the ESC 0/1-h algorithm. *Clin Chim Acta*. 2021 Aug;519:204-205. doi:10.1016/j.cca.2021.05.005. PMID:33989613.

**Tang NY**, Pei X, George D, House L, Danahey K, Lipschultz E, et al. Validation of a large custom-designed pharmacogenomics panel on an array genotyping platform. *J Appl Lab Med*. 2021 Nov 1;6(6):1505-1516. doi:10.1093/jalm/jfab056. PMID:34263311.

Tuan H, **Yu L**, Yin L, Lo Sicco K, Shapiro J. Prediction of therapeutic outcomes of female pattern hair loss patients based on clinical features with application of artificial intelligence. *J Am Acad Dermatol*. 2021 Dec;85(6):1622-1624. doi:10.1016.

Tukel MR, Adelman MJ, Gladstone GJ, **Appleford C**. Nonintestinal type adenocarcinoma of the ethmoid sinus with unusual cribriform histologic pattern. *Ophthalmic Plast Reconstr Surg*. 2021 May-Jun 01;37(3):e123. doi:10.1097/IOP.0000000000001736. PMID:32732540.

**Wang D**, Champion-Lyons E, Neyens R, Bohm N, Caddell B, Babic N. The effect of sample handling on free valproic acid levels. *J Appl Lab Med*. 2021 Apr 29;6(3):645-653. doi:10.1093/jalm/jfaa181. PMID:33249432.

**Wang D**, Emanuel AJ, Neyens RR, Bakharev E, Babic N. Cefoxitin-serum creatinine interference in a patient with nontuberculous mycobacteria ventriculomeningitis. *J Pharm Pract*. 2021 Aug;34(4):658-661. doi:10.1177/0897190020921613. PMID:32351174.

**Worrell HI**, Sciallis AP, Skala SL. Patterns of SATB2 and p16 reactivity aid in the distinction of atypical polypoid adenomyoma from myoinvasive endometrioid carcinoma and benign adenomyomatous polyp on endometrial sampling. *Histopathology*. 2021 Jul;79(1):96-105. doi:10.1111/his.14338. PMID:33459390.

Yanson K, Laviers W, Neely L, Lockamy E, Castillo-Hernandez LC, Oldfied C, et al, **[Ortiz DA]**. Performance evaluation of the BD SARS-CoV-2 reagents for the BD MAX system. *J Clin Microbiol*. 2021 Nov 18;59(12):e0101921. doi:10.1128/JCM.01019-21. PMID:34586894.

Yu L, Halalau A, Dalal B, Abbas AE, Ivascu F, **Amin M**, et al. Machine learning methods to predict mechanical ventilation and mortality in patients with COVID-19. *PLoS One*. 2021 Apr 1;16(4):e0249285. doi:10.1371/journal.pone.0249285. PMID:33793600.

Zhang KJ, **Qu Z, Zhang PL**, Brown RE. A brief history, the progress in the variants of therapies against metastatic neoplasms, and the role of pathologists. *Ann Clin Lab Sci*. 2021 Jul;51(4):461-469. PMID:34452884.

**Zhang PL**, Liu ML. Extracellular vesicles mediate cellular interactions in renal diseases-novel views of intercellular communications in the kidney. *J Cell Physiol*. 2021 Aug;236(8):5482-5494. doi:10.1002/jcp.30268. PMID:33432614.

**Zhang PL, Raza S, Li W, Kanaan HD**. Pathologic correlation with renal dysfunction after intravitreal injections of vascular endothelial growth factor antagonists. *Ann Clin Lab Sci*. 2021 Nov;51(6):875-882. PMID:34921042.

### **Book Chapter or Full Book Publications:**

**Kam KL**, Parrack P, Banworth M, Aravindan S, Li G, Fung KM. Use of immunohistochemistry to determine expression of Rab5 subfamily of GTPases in mature and developmental brains. *Methods in Molecular Biology*, vol 2293. Humana, New York, NY, 2021. [https://doi.org/10.1007/978-1-0716-1346-7\\_19](https://doi.org/10.1007/978-1-0716-1346-7_19)

### **Abstracts with Associated Research Publications:**

**Al-Othman Y, Li W, Kanaan H, Zhang P**. Weakened IgG4 staining and positive PLA2r staining indicate resolving primary membranous glomerulopathy (MGN). *Am J Clin Pathol* 2021 Oct 28;156(S1):S154–S155, doi.org/10.1093/ajcp/aqab191.330.

**Al-Othman Y, Qu Z, Zhang P**. Cryoglobulin hyaline-thrombi associated acute jejunitis in a patient with type 2 cryoglobulinemic glomerulonephritis. *Am J Clin Pathol* 2021 Oct 28;156(S1):S153. doi.org/10.1093/ajcp/aqab191.326.

**Deebajah M, Qu Z, Zhang P**. GATA3 is a useful immunohistochemical marker to differentiate variants of renal tubular lesions from different segments of renal tubules. *Am J Clin Pathol* 2021 Oct;156(S1):S152–S153. doi.org/10.1093/ajcp/aqab191.325m.

**Fatemi S, Qu E, Fullmer J.** Anti-NMDA-receptor encephalitis in a patient with ovarian teratoma, harboring brain histology of varying developmental stages and regions with chronic inflammation. *Am J Clin Path* 2021 Oct;156(S1):S80–S81. doi.org/10.1093/ajcp/aqab191.170.

**Kumar S, Schwartz J, Amin M, Kilbourn J, Vue H, Daraiseh S, et al, [Jabbar K].** ILLUMINA TruSight Oncology 500 sequencing panel validation at a large community based hospital. *Lab Invest* 2021 Mar;101(Suppl 1):1066-1067, and *Mod Path* 2021 Mar;34(Suppl 2):1066–1067.

Lazarczyk P, Zakaria A, Chandra R, Imam Z, **Li W**, Gamarra R. Hiding in plain sight: A challenging case of obscure GI bleeding due to appendiceal endometriosis in a postmenopausal female patient. *Am J Gastroenterol* 2021 Oct;116:S1002.

**Mahalingam VD, Zhang P.** A case report of autopsy: Large mass of pulmonary metastatic calcification in a patient with end-stage renal disease, *Am J Clin Path* 2021 Oct;56(S1):S24. doi.org/10.1093/ajcp/aqab191.045

**Mahalingam VD, Zhang PL, Qu Z.** IgG4-related disease presenting as or with isolated giant cell temporal arteritis. *Arch Path Lab Med* 2021 Sept;145(9):194.

Myrzykowski M, Xie C, Sweet R, **Xie M.** Laboratory analysis of antiphospholipid antibodies with clinical correlation: A hospital-based 10 year study. *Am J Clin Path* 2021 Oct;156(S1):S104-5.

Pandey S, **Amin M**, Cappell M. Metastasis of solitary fibrous tumor to the peripancreatic area causing pancreatitis. *Am J Gastroenterol.* 2021;116:S754. doi:10.14309/01.ajg.0000780300.44703.3c.

**Qu Z**, Zhang L, Ding X, Jabbar K. How much time do general surgical pathologists spend on diagnostic data entry? *Arch Pathol Lab Med* Sept 2021;145 (9):e96–e97. doi.org/10.5858/arpa.2021-0267-AB

**Qu Z, Qu E, Huang J, Micale MA**, Li E. Utilization of 2D barcode technology to create surgical pathology reports. *Am Clin Path* 2021 Oct;156(S1):S116. doi.org/10.1093/ajcp/aqab191.247.

Savant D, **Polanco Jacome C**, Lozano MD, Abad-Licham M, DeCarvalho Dornelas B, et al. Graduate medical education in pathology/cytopathology training programs during times of social distancing: Experience of Latin America and Spain. *J Am Soc Cytopathology.* 2021 Sept-Oct 10(5):12-13.

**Thorburn C, Jabbar KJ, Li W, Kanaan H, Zhang P.** Recurrent focal segmental glomerulosclerosis progressing to collapsing glomerulopathy in renal graft of an autopsy study. *Am Clin Path* 2021 Oct;156(S1):S153-4.

**Thorburn C, Qu Z, Zhang P.** Increased activated plasma cells in inflammatory bowel disease when compared to ischemic colitis. *Am J Clin Path* 2021 Oct;156(S1):S56.

<https://doi.org/10.1093/ajcp/aqab191.115>

Volin JH, Herndon PR, Spillinger AI, Karabon PR, Blumline JM, Tran DN, et al, **[Fletcher CA].** Mp17-01 is a preoperative type and screen required in patients undergoing common urological procedures? a cost-benefit analysis. *J Urol* 2021 Sep;206(S3). doi:10.1097/JU.0000000000002002.01.

**Xiao A, Kanaan H, Li W, Zhang P.** POS-168 mosaic pattern of progenitor cell marker cd133 expression to identify podocyte proliferation supports collapsing variant of focal segmental glomerulosclerosis (FSGS). *Kidney Int Rep* 2021 Apr 1;6(4):S68-9.

### **Invited Research Presentations:**

**Afolayan-Oloye O, Fatemi S, Deebajah M, Fullmer J.** Co-infection of SARS-COV-2 and central nervous system (CNS) infection in the CNS in a healthy 5 YO child. American Association of Neuropathology, St. Louis, MO. Jun 10-13, 2021.

**Blatt NB, Wickman LT, Zhang PL.** Myeloperoxidase immunohistochemical staining and response to eculizumab in a pediatric patient with dense deposit disease. The Annual Meeting of the American Society of Nephrology, 2021 Nov 4-7. Virtual.

**Shetty Z, Amin M, Balaraman S, Shetty S.** A unique case of renal pelvic urothelial carcinoma with extensive small round cell sarcoma differentiation showing EWSR1 gene rearrangement. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL.

<https://ncsuaa.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

Volin J, Herndon P, Spillinger A, Karabon P, Blumline J, Tran D, et. Al, **[Fletcher C]**. Is a preoperative type and screen required in patients undergoing common urological procedures? A cost-benefit analysis. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsuaa.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Wang GY.** Interobserver variability in differentiated vulvar intraepithelial neoplasia between surgical pathology subspecialties. Oral abstract 58th ASDP Annual Meeting. Oct 2021. Virtual.

### **Multimedia:**

Anusim N, **Wey E.** The Rods. British Society for Haemtology – Haematology images. 2021. <https://b-s-h.org.uk/education/haematology-images/view/80629>



# PEDIATRIC SERVICES

## Peer- Reviewed Articles:

Al-Hadidi A, Lapkus M, Karabon P, **Akay B, Khandhar P**. Respiratory modalities in preventing reintubation in a pediatric intensive care unit. *Glob Pediatr Health*. 2021 Jan 27;8:2333794X21991531. doi:10.1177/2333794X21991531. PMID:33614852.

Ang NB, **Wasserman JA**. Prevalence of traumatic brain injury among the guests at a low-barrier homeless shelter. *BMC Res Notes*. 2021 Feb 4;14(1):44. doi:10.1186/s13104-021-05452-8. PMID:33541400.

Barrow JM, Brannan GD, **Khandhar PB**. Research ethics. 2021 Aug 28. StatPearls Publishing. PMID: 29083578.

Barrow JM, **Khandhar PB**. Deontology. 2021 Aug 12. StatPearls Publishing. PMID: 29083671.

Basu RK, Bjornstad EC, Gist KM, Starr M, **Khandhar P**, Chanchlani R, et al. Acute kidney injury in critically ill children and young adults with suspected SARS-CoV2 infection. *Pediatr Res*. 2021 Jul 30:1–10. doi:10.1038/s41390-021-01667-4. PMID:34331019.

Baumer FM, McNamara NA, Fine AL, Pestana-Knight E, Shellhaas RA, et al, **[Arndt DH]**. Treatment practices and outcomes in continuous spike and wave during slow wave sleep: A multicenter collaboration. *J Pediatr*. 2021 May;232:220-228.e3. doi:10.1016/j.jpeds.2021.01.032. PMID:33484700.

**Bicoll PS, Goyal A, Blatt NB, Freij BJ**. Eculizumab-associated *Moraxella Lacunata* bacteremia and systemic inflammatory response syndrome in a toddler with atypical hemolytic uremic syndrome. *Clin Med Insights Pediatr*. 2021 Feb 8;15:1179556521992367. doi:10.1177/1179556521992367. PMID:33613039.

David S, **Khandhar PB**. Double-blind study. 2021 Jul 21. StatPearls Publishing. PMID:31536248.

Ellis DA, Rhind J, Carcone AI, Evans M, Weissberg-Benchell J, Buggs-Saxton C, et al, **[Dekelbab B]**. Optimizing recruitment of black adolescents into behavioral research: A multi-center study. *J Pediatr Psychol*. 2021 Feb 11;jsab008. doi:10.1093/jpepsy/jsab008. PMID:33570144.

Fotheringham S, Karabon P, Wunderlich-Barillas T, **Traynor J, Gowans K**. Optimization of school reintegration for pediatric oncology patients and their peers. *Continuity in Education*. 2021;2(1):60-72.

Ganganna ST, **Obeid R**. Amplitude of care for the neonatal brain. *Indian Pediatr*. 2021 Oct 15;58(10):913-914. PMID:34636325.

Greenbaum LA, Jeck N, Klaus G, Fila M, Stoica C, Fathallah-Shaykh S, et al, **[Wickman L]**. Safety and efficacy of sucroferric oxyhydroxide in pediatric patients with chronic kidney disease. *Pediatr Nephrol*. 2021 May;36(5):1233-1244. doi:10.1007/s00467-020-04805-y. PMID:33106892.

**Gurkha D, Cashen K, Patek P, Lelak K, Levasseur K**. Coronavirus-19 multisystem inflammatory syndrome in children (MIS-C): A pediatric simulation case for residents, fellows, and advanced practice providers. *MedEdPORTAL*. 2021 Aug 16;17:11180. doi:10.15766/mep\_2374-8265.11180. PMID:34466658.

**Guzzardo G, Gowans LK.** A 21-year-old with right lower extremity edema. *Clin Pediatr (Phila)*. 2021 Feb;60(2):99. doi:10.1177/0009922820953537. PMID:32856469.

**Hassan M,** Alam D, Altaf N, Kundi AK. A rare case of spontaneous tumor lysis syndrome in hodgkin lymphoma. *Cureus*. 2021 Jun 24;13(6):e15887. doi:10.7759/cureus.15887. PMID:34211814.

**Hassan M,** Altaf N, **Waqas M.** Pilomatrixoma of the left scapular region in a young male: A rare case report. *Cureus*. 2021 May 20;13(5):e15135. doi:10.7759/cureus.15135. PMID:34168921.

Hawkes CP, Roy SM, **Dekelbab B,** et al. Hypercalcemia in children using the ketogenic diet: A multicenter study. *J Clin Endocrinol Metab*. 2021;106(2):e485-e495. doi:10.1210/clinem/dgaa759

Kaplan M, **Maisels MJ.** Natural history of early neonatal bilirubinemia: A global perspective. *J Perinatol*. 2021 Apr;41(4):873-878. doi:10.1038/s41372-020-00901-x. PMID:33398058.

**Kelsch RD, Nolan DA,** Krishnan A. Unusual case of biotin-thiamine responsive encephalopathy without basal ganglia involvement. *Pediatr Radiol*. 2021 Mar;51(3):485-488. doi:10.1007/s00247-020-04829-4. PMID:33000323.

**Krishnaprasadh D, Levasseur K.** Mastocytosis. *Pediatr Rev*. 2021 Aug;42(8):468-470. doi:10.1542.

**Maisels MJ,** Newman TB, Kaplan M. A new hour-specific serum bilirubin nomogram for neonates  $\geq 35$  weeks of gestation. *J Pediatr*. 2021 Oct;237:317. doi:10.1016/j.jpeds.2021.07.012. PMID:34265340.

Monroe KK, Razoky P, Murphy S, Skoczylas M, Kaciroti N, McCaffery H, et al, **[Mychaliska KP]**. The length of gomco clamp timing and its effect on bleeding. *Hosp Pediatr*. 2021 Sep;11(9):1003-1010. doi:10.1542.

Navin M, **Wasserman JA,** Stahl D, Tomlinson T. The capacity to designate a surrogate is distinct from decisional capacity: Normative and empirical considerations. *J Med Ethics*. 2021 Feb 19.

**Obeid R,** Jacobs M, Chang T, Massaro AN, Bluth E, Murnick JG, et al. The utility of the fronto-temporal horn ratio on cranial ultrasound in premature newborns: A ventriculomegaly marker. *Pediatr Res*. 2021 Jan 27. doi:10.1038/s41390-020-01337-x. PMID:33504959.

**Obeid R.** June eci biocommentary: Rawad obeid. *Pediatr Res*. 2021 May;89(7):1601. doi:10.1038/s41390-021-01481-y. PMID:33824453.

Ozcan A, **Laskowski E, Sahai S,** Levasseur K. Febrile infants without respiratory symptoms or sick contacts: Are chest radiographs or RSV/influenza testing indicated? *BMC Infect Dis*. 2021 Aug 23;21(1):862. doi:10.1186/s12879-021-06493-x. PMID:34425771.

Radhakrishna U, Vishweswaraiiah S, Uppala LV, Szymanska M, Macknis J, Kumar S, et al, **[Saleem-Rasheed F]**. Placental DNA methylation profiles in opioid-exposed pregnancies and associations with the neonatal opioid withdrawal syndrome. *Genomics*. 2021 Mar 9;113(3):1127-1135. doi:10.1016/j.ygeno.2021.03.006. PMID:33711455.

Roskind CG, Leonard K, Baghdassarian A, Kou M, **Levasseur K,** Rose JA, et al. Pediatric emergency medicine fellows' milestone evaluations: Do they all meet the targets for graduation? 2021 Jul 1;5(3):e10620. doi:10.1002/aet2.10620. PMID:34222754.

Rubin A, Osborn RR, Nowicki MJ, Surber K, Rashty JL, Shefler A, et al, **[Mychaliska KP]**. Patient- and family-centered rounding: A single-site look into the room. *Pediatr Qual Saf*. 2021 Jun 23;6(4):e421. doi:10.1097/pq9.0000000000000421. PMID:34235350.

**Shikhare AR, Iqbal RM**, Tariq R, Turner DR, **Gebara BM, Freij BJ**. Diversity of cardiac and gastrointestinal presentations of multisystem inflammatory syndrome in children (MIS-C) associated with COVID-19: A case series. *Glob Pediatr Health*. 2021 Feb 22;8:2333794X21996613. doi:10.1177/2333794X21996613. PMID:33748343.

Thiele EA, Bebin EM, Bhathal H, Jansen FE, Kotulska K, Lawson JA, et al, **[Arndt D, Nolan D]**. Add-on cannabidiol treatment for drug-resistant seizures in tuberous sclerosis complex: A placebo-controlled randomized clinical trial. *JAMA Neurol*. 2021 Mar 1;78(3):285-292. doi:10.1001.

Tripathi S, Gist KM, Bjornstad EC, Kashyap R, Boman K, Chiotos K, et al, **[Khandhar PB]**. Coronavirus disease 2019-associated PICU admissions: A report from the Society of Critical Care Medicine Discovery Network Viral Infection and Respiratory Illness Universal Study Registry. *Pediatr Crit Care Med*. 2021 Jul 1;22(7):603-615. doi:10.1097/PCC.0000000000002760. PMID:33965987.

Vu TT, Rose JA, Shabanova V, Kou M, Zuckerbraun NS, Roskind CG, et al, **[Levasseur K]**. Milestones comparisons from residency to pediatric emergency medicine fellowship: Resetting expectations. *AEM Educ Train*. 2021 May 8;5(3):e10600. doi:10.1002/aet2.10600. PMID:34124529.

**Wasserman JA**, Browne BJ. On triggering and being triggered: Civil society and building brave spaces in medical education. *Teach Learn Med*. 2021 Feb 26;1-7. doi:10.1080/10401334.2021.1887740. PMID:33632036.

#### **Book Chapter or Full Book Publications:**

**Uddin A, Kalladi S**. Central diabetes insipidus with pituitary stalk thickening. *Diabetes Insipidus in Children: A Pocket Guide*. Cham: Springer International Publishing, 2021. p41-53.

#### **Abstracts with Associated Research Presentations:**

Fotheringham S, Karabon P, Wunderlich-Barillas T, Traynor J, **Gowans K**. Optimization of school reintegration for pediatric oncology patients and their peers. *Pediatr Blood Cancer* 2021 Jun;68:S101–S102.

**Jeong YS**, Shah S, Akula S, **Novotny NM**, Menoch M. Shock index pediatric adjusted score vs pediatric trauma score in the emergency department: So many scores, so little time. *Acad Emerg Med*. 2021 May;28(Suppl 1):S338-339.

Musa A, Warbasse E, Yousif J, Baron D, Stevens S, Blodget E, et al, **[Kamal K]**. Remdesivir for the treatment of Covid-19: A meta-analysis of randomized controlled trials. *J Gen Intern Med*. 2021;369(S1) S157-8.

Saleem S, Jary J, **Levasseur K**. Specific concussion curriculum: Does it improve resident comfort, knowledge, and in-training examination scores? A pilot study. *Acad Emerg Med*. 2021 May;28(Suppl 1):S386.

**Shikhare A, Edlibi S**, Cochran C. Myopericarditis in an adolescent with diabetic ketoacidosis. *Pediatrics* 2021 Mar 1;147(3), p.635.

### **Invited Research Presentations:**

Abdo D, Rogers R, **Edlibi S, Pollak AM, Shubeck S, Owusu-Asare C**, et al, [**Wassef R, Mychaliska KP**]. Pediatric obesity: A survey study of patients and caregivers' concern and interest in specialized programs. American Academy of Pediatrics. AAP Experience 2021 National Conference & Exhibition. 2021 Oct 8-11. Virtual.

**Arnold J**. Pediatric feeding challenges: More than picky eating. Beaumont Health On Demand Series. 2021 Sept 14. Virtual.

**Bergsman C**. Precocious puberty. Pediatrics Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Nov 30.

**Bergsman C**. Quality improvement. Pediatrics Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Oct 26.

**Bergsman C**. Quality improvement. Pediatrics Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Jun 22.

**Bergsman C**. Rapid genomic diagnosis in critical situations. Pediatrics Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Jun 29.

**Bergsman C**. Recent controversies and recommendations regarding Vitamin K in the newborn. Pediatrics Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Jun 8.

**Blatt NB, Wickman LT, Zhang PL**. Myeloperoxidase immunohistochemical staining and response to eculizumab in a pediatric patient with dense deposit disease. The Annual Meeting of the American Society of Nephrology, 2021 Nov 4-7. Virtual.

Conn S, **Smyth ME**. Legally mandatory reporting of suspected abuse. Beaumont Health CME on Demand. 2021 Jul 28. Virtual.

**Edlibi S**, Rogers R, Abdo D, **Owusu-Asare C, Wassef R**, Coffey M, et al, [**Pollak A, Shubeck S, Mychaliska K**]. Current state of pediatric obesity: Management trends in an outpatient pediatric clinic. Midwest Society for Pediatric Research 2021 Scientific Meeting. 2021 Oct 13-15. Virtual.

**Freij B**. Pediatric COVID-19 update. Pediatrics Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Oct 5.

**Gowans LK**, Townsel D, Webster D, **Yankelovich M**. Behavioral health on demand: Bridging the gap between pediatric and adult oncology: Addressing unique needs for adolescents and young adults. Beaumont Health. 2021 Nov 16. Virtual.

**Hassan M**. Pilomatrixoma of the left scapular region in a young male: A rare case report. The Academic Pediatric Association Region 5 Conference, 2021 Mar 5. Virtual.

Kumar M, Harvey RN, **Fatima A**, Osei SK, Menning A, **Stallion A**, et al, [**Novotny NM**]. Nutritional impact of medical management and surgery in responsive and refractory ulcerative colitis. The American College of Surgeons Clinical Congress, 2021 Oct 23-27. Virtual.

Kumar M, Osei SK, **Fatima A**, Harvey RN, Menning A, **Stallion A**, et al, [**Novotny NM**]. The evolving effectiveness of biologics in avoiding surgery in children with ulcerative colitis. The Annual Meeting of the American Pediatric Surgical Association, 2021 May 20-22. Virtual.

**Lawrence C.** Follow-up for NICU graduates. Pediatrics Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Oct 19.

Menning A, Kumar M, Osei SK, **Fatima A**, Harvey RN, **Stallion A**, et al, [**Novotny NM**]. The evolving effectiveness of biologics in avoiding surgery in children with ulcerative colitis. The 67th Annual Meeting of the Michigan Chapter American College of Surgeons, 2021 May 12-14. Virtual.

**Mitsuya J.** Update on celiac disease. Pediatrics Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Oct 12.

**Obeid R**, Jacobs M, Chang T, Massaro AN, Bulas D, Penn A. Cerebral perfusion using the resistive index on doppler ultrasound in extremely premature newborns with ventriculomegaly. Pediatric Academic Societies, PAS 2021. 2021, Phase I: Apr 30-May 4, Phase II: May 10-Jun 4. Virtual.

**Pollak A, Mychaliska K, Shubeck S, Adeyemo O**, Hashmi A, **Rubenstein M**, et al. Effect of SARS-COV2 on adolescent PHQ-9 screening results. American Academy of Pediatrics. AAP Experience 2021 National Conference & Exhibition. 2021 Oct 8-11. Virtual.

**Smyth ME.** Child abuse: Screening assessment & resources. Beaumont Health On Demand Series. 2021 Aug 25. Virtual.

**Warner LJ.** Behavioral health on demand: Mindful media use. Beaumont Behavioral Health on Demand. 2021 Mar 9. Virtual.

**Wasserman J.** Do family interests count (and how much) in pediatric ethics? Pediatrics Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Dec 7.

#### **Multimedia:**

Shajahan A, **Freij B.** The children & COVID-19 vaccines episode. Michigan: Beaumont Health, 2021. <https://www.youtube.com/watch?v=2LrLuj2Yfs0>

#### **Non-Peer Reviewed Research Publications:**

**Saleem S**, Jary J, Levasseur K. Specific concussion curriculum: Does it improve residents' comfort, knowledge, and in-training examination scores? A pilot study. medRxiv 2021. doi:doi.org/10.1101/2021.04.17.21255666.

# PHARMACEUTICAL SERVICES

## Peer Reviewed Articles:

**Abbas M, Bakhtyar A, Bazzi R.** Neonatal HIV. 2021 Dec 28. StatPearls Publishing. PMID:33351437.

**Abbas M, Moussa M, Akel H.** Type I hypersensitivity reaction. 2021 Jul 21. StatPearls Publishing. PMID:32809396.

Alosaimy S, Lagnf AM, Morrisette T, Scipione MR, Zhao JJ, Jorgensen SCJ, et al, **[Amaya L, Yost C]**. Real-world, multicenter experience with meropenem-vaborbactam for gram-negative bacterial infections including carbapenem-resistant enterobacterales and pseudomonas aeruginosa. Open Forum Infect Dis. 2021 Jul 14;8(8): ofab371. doi:10.1093/ofid/ofab371. PMID:34430671.

Budisak P, **Abbas M.** Bismuth subsalicylate. 2021 Nov 25. StatPearls Publishing. PMID:32809532.

Ciccarello C, Leber MB, Leonard MC, Nesbit T, Petrovskis MG, Pherson E, et al, **[Pillen HA]**. ASHP guidelines on the pharmacy and therapeutics committee and the formulary system. Am J Health Syst Pharm. 2021 May 6;78(10):907-918. doi:10.1093/ajhp/zxab080. PMID:33954417.

Feldeisen T, Alexandris-Souphis C, Haymart B, Kong X, Kline-Rogers E, Handoo F, et al, **[Ali M]**. Anticoagulation changes following major and clinically relevant nonmajor bleeding events in non-valvular atrial fibrillation patients. J Pharm Pract. 2021 Dec 28:8971900211064189. doi:10.1177/08971900211064189. PMID:34962835.

Giuliano C, **McConachie S**, Kalabalik-Hoganson J. Multicenter randomized comparative trial of Micromedex, Micromedex with Watson, or Google to answer drug information questions. J Med Libr Assoc. 2021 Apr 1;109(2):212-218. doi:10.5195/jmla.2021.1085. PMID:34285664.

**Mohammad I**, Berri D, Tutag Lehr V. Pharmacists and opioid use disorder care during COVID-19: Call for action. J Am Coll Clin Pharm. 2021 Nov 8:10.1002/jac5.1556. doi:10.1002/jac5.1556. PMID:34909605.

Moses TEH, **Moreno JL**, Greenwald MK, Waineo E. Training medical students in opioid overdose prevention and response: Comparison of in-person versus online formats. Med Educ Online. 2021 Dec;26(1):1994906. doi:10.1080/10872981.2021.1994906. PMID:34727840.

Peterson EL, Chittick PJ, **Richardson CL.** Decreasing voriconazole requirement in a patient after extracorporeal membrane oxygenation discontinuation: A case report. Transpl Infect Dis. 2021 Jun;23(3):e13545. doi:10.1111/tid.13545. PMID:33316840.

**Rico M**, Sulaiman R, MacLeod R. Asymptomatic bacteriuria: Impact of an antimicrobial stewardship bundle to reduce unnecessary antibiotics in patients without urinary catheters. Am J Health Syst Pharm. 2021 Aug 30;78(Suppl 3):S83-S87. doi:10.1093/ajhp/zxab220. PMID:34037694.

Schaefer JK, Errickson J, Li Y, Kong X, Alexandris-Souphis T, **Ali MA**, et al. Adverse events associated with the addition of aspirin to direct oral anticoagulant therapy without a clear indication. JAMA Intern Med. 2021 Jun 1;181(6):817-824. doi:10.1001/jamainternmed.2021.1197. PMID:33871544.

**Smythe MA, Koerber JM, Hoffman JL, Mertz S, Fritsch K**, Chehab F, et al. Outcomes of activated prothrombin complex concentrate for direct Xa inhibitor bleeding. Thromb Res. 2021 Oct, 206:142-144. doi:10.1016/j.thromres.2021.08.011. PMID:34481221.

Vaughn VM, Gandhi TN, Chopra V, Petty LA, Giesler DL, Malani AN, et al, **[Hsaiky LM]**. Antibiotic overuse after hospital discharge: A multi-hospital cohort study. *Clin Infect Dis*. 2021 Dec 6; 73(11):e4499-e4506. doi:10.1093/cid/ciaa1372. PMID:32918077.

Warkentin TE, **Smythe MA, Ali MA**, Aslam N, Sheppard JI, Smith JW, et al. Serotonin-release assay-positive but platelet factor 4-dependent enzyme-immunoassay negative: HIT or not HIT? *Am J Hematol*. 2021 Mar 1;96(3):320-329. doi:10.1002/ajh.26075. PMID:33326124.

### **Abstracts with Associated Research Publications:**

**Daneshvar F, Dabbous S, Coram R**. Brilinta resistance: A rare but life-threatening phenomenon. *J Am College Cardiol* 2021;77(18):1868.

Schaefer JK, Errickson J, Kong X, Alexandris-Souphis T, **Ali MA**, Edupuganti S, et al. Outcomes of direct oral anticoagulants with aspirin versus warfarin with aspirin for atrial fibrillation and/or venous thromboembolic disease. *Blood*. 2021 Nov 23;138(Suppl 1):179.

### **Invited Research Presentations:**

**Al-Salamy E**, Christensen R, **Rajanna V, Yost C**. Antimicrobial prescribing practices from hospital to home for community acquired pneumonia (CAP). American Society of Health-System Pharmacists (ASHP) Midyear Clinical Meeting, 2021 Dec 9. Virtual.

Farhat, L, Berry N, Prouty A, Mohammad I, **McConachie, S**. Evaluation of physician, pharmacist, nurse and patient agreement on new medication counseling points. Ohio Pharmacy Resident Conference, 2021 May 20, Ada, OH.

**Jablonski J, Prieur G, Rajanna V, Yost C**. Antimicrobial prescribing practices from hospital to home for urinary tract infection (UTI). American Society of Health-System Pharmacists (ASHP) Midyear Clinical Meeting, 2021 Dec 9. Virtual.

LaFreniere K, **Jones J, Pipta J**. Inpatient sepsis order set use and impact on SEP-1 compliance in severe sepsis and septic shock. Ohio Pharmacy Resident Conference, 2021 May 20, Ada, OH.

**Mayalall, A, Wilpula, D**. Development of a hypoglycemia prediction tool for use in patients with diabetes mellitus admitted to Beaumont Hospital, Dearborn. Ohio Pharmacy Resident Conference, 2021 May 20, Ada, OH.

**Roa, P, Mohammad, IN**. Evaluation of an interprofessional outreach initiative for patients with uncontrolled hypertension in primary care: Retrospective cohort study. Ohio Pharmacy Resident Conference, 2021 May 20, Ada, OH.

**Savickas D, Richardson C, Yost C**. Evaluation of a pharmacist-to-dose voriconazole protocol on adverse drug reactions. American Society of Health-System Pharmacists (ASHP) Midyear Clinical Meeting, 2021 Dec 9. Virtual.

Song M, Haymart B, Kong X, **Ali M**, Kozlowski J, Krol G, et al. Combination antithrombotic therapy and bleeding risk: Comparing atrial fibrillation and venous thromboembolism. In: SVM 2021 Scientific Sessions. *Vascular Medicine*: 26(5), NP10. Virtual.

**Vesey M, Matalka M, Goldsborough SE, Lutz MF, Zaccardelli J**, Characterization of lithium toxicity at a large academic medical institution. American Society of Health-System Pharmacists (ASHP) Midyear Clinical Meeting, 2021 Dec 9. Virtual.

# PHYSICAL MEDICINE AND REHABILITATION

## Peer Reviewed Articles:

Almahariq MF, Quinn TJ, Arden JD, **Roskos PT**, Wilson GD, Marples B, et al. Pulsed radiation therapy for the treatment of newly diagnosed glioblastoma. *Neuro Oncol.* 2021 Mar 25;23(3):447-456. doi:10.1093/neuonc/noaa165. PMID:32658268.

Arena SK, **Wilson CM**, Boright L, Peterson E. Impact of the HOP-UP-PT program on older adults at risk to fall: A randomized controlled trial. *BMC Geriatr.* 2021 Oct 1;21(1):520. doi:10.1186/s12877-021-02450-0. PMID:34598692.

Briggs RW, **Wilson CM**. Balancing falls at the end of life: The dilemma of acceptance. *Rehabil Oncol.* 2021 Jul;39(1):68-70. doi:10.1097/01.REO.0000000000000239.

**Chongaway A**. Utilization of isometric strength training and interval training with a patient with cancer in the acute care setting. *Cureus.* 2021 Jun 10;13(6):e15570. doi:10.7759/cureus.15570. PMID:34277192.

**Dabrowski E**, Chambers HG, Gaebler-Spira D, Banach M, Kaňovský P, Dersch H, et al. IncobotulinumtoxinA efficacy/safety in upper-limb spasticity in pediatric cerebral palsy: Randomized controlled trial. *Pediatr Neurol.* 2021 Oct;123:10-20. doi:10.1016/j.pediatrneurol.2021.05.014. PMID:34339951.

Delgado MR, Tilton A, Carranza-Del Río J, Dursun N, Bonikowski M, Aydin R, et al, [**Dabrowski E**]. Efficacy and safety of abobotulinumtoxinA for upper limb spasticity in children with cerebral palsy: A randomized repeat-treatment study. *Dev Med Child Neurol.* 2021 May;63(5):592-600. doi:10.1111/dmcn.14733. PMID:33206382.

Grumeretz S, **Wilson CM**. Evaluating the risk of pathologic fracture in metastatic bone disease. *Rehabil Oncol.* 2021 Jul;39(3):e67-e69. doi:10.1097/01.REO.0000000000000265.

Huber MK, **Wilson CM**, Li NY. Acute palliative physical therapy services for a patient with metastatic rectal cancer and subsequent spinal cord compression. *Cureus.* 2021 Sep 3;13(9):e17691. doi:10.7759/cureus.17691. PMID:34650865.

Kaňovský P, Heinen F, Schroeder AS, Chambers HG, **Dabrowski E**, Geister TL, et al. Safety and efficacy of repeat long-term incobotulinumtoxinA treatment for lower limb or combined upper/lower limb spasticity in children with cerebral palsy. *J Pediatr Rehabil Med.* 2021 Dec 21. doi:10.3233/PRM-210041. PMID:34957963.

**LaBan MM**. The initial appearance of neurofibromatosis with the onset of pregnancy. *PM R.* 2021 Nov;13(11):1307-1308. doi:10.1002/pmjr.12501. PMID:32975026.

Naccarato A, **Wilson CM**, Arena SK. Perceptions of rehabilitation managers on implementation of the home-based older person upstreaming prevention (HOP-UP) program: A retrospective qualitative analysis. *Cureus.* 2021 Apr 29;13(4):e14760. doi:10.7759/cureus.14760. PMID:34084684.

Oleszek J, Tilton A, Carranza Del Rio J, Dursun N, Bonikowski M, **Dabrowski E**, et al. Muscle selection and dosing in a phase 3, pivotal study of abobotulinumtoxina injection in upper limb muscles in children with cerebral palsy. *Front Neurol.* 2021 Oct 29;12:728615. doi:10.3389/fneur.2021.728615. PMID:34803878.



Patton BE, **Wilson CM**. Palliative care physical therapy: The challenges and the opportunities. *Rehabil Oncol*. 2021 Jul;39(3):e70-e72. doi:10.1097/01.REO.0000000000000264

Sellers T, Ghannam M, Asantey K, **Klei J**, Olive E, Roach VA. An early introduction to surgical skills: Validating a low-cost laparoscopic skill training program purpose built for undergraduate medical education. *Am J Surg*. 2021 Jan;221(1):95-100. doi:10.1016.

**Wilson CM**, Lucado AM, Wendland DM, Taylor DWM, Black B. Health promotion, wellness, and prevention practice in oncologic physical therapy: A survey study. *Rehabil Oncol*. 2021 Jul;39(3):e56-e57. doi:10.1097/01.REO.0000000000000244

**Wilson CM**, Stromberg JS, **Seidell JW**. Integrating prehabilitation, rehabilitation, and prospective surveillance into cancer interdisciplinary teams. *Oncology Issues* 2021;36:4, 46-55. doi:10.1080/10463356.2021.1930969

Zane KL, Gfeller JD, **Roskos PT**, Stout J, Buchanan TW, Malone TM, et al. R. Diffusion tensor imaging findings and neuropsychological performance in adults with TBI across the spectrum of severity in the chronic-phase. *Brain Inj*. 2021 Apr 16;35(5):536-546. doi:10.1080/02699052.2021.1887521. PMID:33593218.

### **Abstracts with Associated Research Presentations:**

**Al Lawati ZJ, Roskos PT**. Exploring the mental health of physical medicine and rehabilitation residents while caring for patients in post-covid-19 rehabilitation care units: A qualitative study. *Am J Phys Med Rehab*. 2021;100(Suppl 4):a166.

**Al Lawati ZJ, Smith R**. Bell's cruciate paralysis in type II odontoid fracture: Case report. *Am J Phys Med Rehab*. 2021;100(Suppl 4):a37.

**Al Lawati ZJ, Smith R**. Rehabilitation in head and neck cancer: Case report. *Am J Phys Med Rehab*. 2021;100(Suppl 4):a110.

**Bazil T**, Chamberlain C, **LaBan MM**. Sympathetic sibling disc herniation: A case report. 2021 Nov 19, *PM & R* 13(S1):S102.

**Bazil T**, Chamberlain C. Cervical and thoracic myelopathy presenting as atypical chest pain and abdominal pain: A case report. 2021 Nov 19, *PM & R* 13(S1):S122.

**Dabrowski E**, Chambers HG, Gaebler-Spira D, Banach M, Kanovsky P, Dersch H, et al. Efficacy and safety of incobotulinumtoxinA for upper- or combined upper- and lower-limb spasticity in children and adolescents with cerebral palsy: Results of the phase 3 XARA study. *Am J Phys Med Rehab*. 2021;100(Suppl 4):a161.

Fry A, Chen NW, Ho J, Kisser JE, **Roskos PT**. Comparing the reliability and validity characteristics of FIM and CARE tool: How do they stack up? *PM & R*. 2021;13(S1):s5-s6.

**Garelik L**. Post-operative aseptic meningitis of adult male after left parietal craniotomy for GBM resection: A case report. 2021 Nov 19, *PM & R* 13(S1):S61.

Gormley M, **Dabrowski E**, Tilton A, Christian A, Evans SH, Maisonobbe P, et al. Efficacy and safety of abobotulinumtoxinA in pediatric lower limb spasticity: 2nd interim results from a phase IV, prospective, observational, multicenter study. *Am J Phys Med Rehab*. 2021;100(4S):a162

Gormley M, **Dabrowski E**, Tilton A, Christian A, Evans SH, Maisonobe P, et al. Efficacy and safety of abobotulinumtoxinA in pediatric lower limb spasticity (PLLS): 2nd interim results from a Phase IV, prospective, observational, multicenter study. *Toxicon* 2021;190 (S1):S28.

Khaliq F, Wills M, Dhar N, **Bitar A**, Dhar S, Komnenov D, et al. Assessment of overactive bladder symptoms in deconditioned patients recovering from post-acute COVID-19 syndrome. *J Urol.* 2021 Sep;206(S3):e18-e19.

**Mazar A, Mendez J.** Atypical location of calcific tendinitis in the shoulder. *Am J Phys Med Rehab.* 2021;100(4S):a33-a34.

**McCallum J, Sankovic R, Contreras W.** Anisocoria in traumatic brain injured patient. *Am J Phys Med Rehab.* 2021;100(4S):a31.

Oleszek J, Tilton A, Carranza J, Dursun N, Bonikowski M, **Dabrowski E**, et al. Dosing from a phase 3 pivotal study of abobotulinumtoxinA injection in upper-limb muscles in pediatric patients with cerebral palsy. *Toxicon.* 2021 Jan 1;190(S1):S53.

Patel A, Wietek S, **Dabrowski E.** Development of the Hygiene Extension Limb Position Pain (HELP) tool to monitor waning of clinical efficacy in patients with spasticity or cervical dystonia treated with botulinum toxins. *Toxicon* 2021 Jan;190(Suppl 1):S57, and *Am J Phys Med Rehab.* 2021;100(Suppl 4):a158. <https://www.sciencedirect.com/science/article/pii/S0041010120309053>

**Sankovic R, Reyes A, McCallum J, Mafiah M, Roskos PT.** Mini case series: Dysphagia and complications of dermatomyositis during inpatient rehabilitation. *Am J Phys Med Rehab.* 2021;100(Suppl 4):a86.

**Sankovic R, Reyes A, Shah V, Smith R, Roskos PT.** Purple urine bag syndrome and urological complications in a spastic quadriplegic. *Am J Phys Med Rehab.* 2021;100(4S):a105.

**Shkokani L, Reyes A, Hazim B, Kissner J, Roskos PT.** The use of actigraphy and its impact on perceived sleep quality and activity levels in individuals with traumatic brain injury in an inpatient rehabilitation setting. *Am J Phys Med Rehab.* 2021;100(4S):a7.

**Zhang D, Hazim B, Alvi R, Roskos PT, Kline J.** Use of the SCAT-5 to predict return to play in high school athletes with history of concussion. *PM & R.* 2021;13(S1):s111.

**Zhang D, Mafiah M.** Pan brachial plexopathy after intermittent prone positioning during ventilation in a patient with coronavirus disease 2019 (covid-19) induced acute respiratory distress syndrome: A case report. *PM & R.* 2021;13(S1):s197.

### **Invited Research Presentations:**

**Roskos P.** Behavior health on demand: Neuropsychology of traumatic brain injuries. Beaumont Health Behavior Health on Demand Series. 2021 May 11. Virtual.

**Roskos P.** Behavioral health on demand: Neuropsychology in the elderly. Beaumont Health on Demand Series. 2021 Jun 8. Virtual.

# PODIATRY

## Peer Reviewed Articles:

Bell A, Irfan Z, **Farah A**. Surgical patients with intellectual disabilities: An interdisciplinary approach. Podiatry Today. 2021 Sep, 34(9). <https://www.hmpgloballearningnetwork.com/site/podiatry/surgical-patients-intellectual-disabilities-interdisciplinary-approach>

**Mariano A, Fallat LM**. Unusual presentation of diffuse large B-cell lymphoma involving the calcaneus: A case report. Foot Ankle Surgery: Techniques, Reports & Cases, 2021 Dec 1;1(4). doi:10.1016/j.fastrc.2021.100102.

**Mortenson KE, Fallat LM**. Allogenic fibular bone graft reconstruction with complete regeneration of the lateral malleolus after En bloc resection of a distal fibular aneurysmal bone cyst: A case report. Foot & Ankle Surgery: Techniques, Reports & Cases. 2021 Sep 1, 1(3):100055. doi:10.1016/j.fastrc.2021.100055.

**Mortenson KE, Fallat LM**. Principles of triple arthrodesis and limited arthrodesis in the cavus foot. Clin Podiatr Med Surg. 2021;38(3):411–25. doi:10.1016.

**Randall R, Fallat L, Wadehra A, Robitaille A**. Hammertoe correction: Is arthroplasty more effective than arthrodesis? Podiatry Today. 2021 Apr, 34(4). <https://www.hmpgloballearningnetwork.com/site/podiatry/hammertoe-correction-arthroplasty-more-effective-arthrodesis>

Suzuki K, Abdo R, **Evans J**, Strimbu A. Practical insights on current and emerging options for pad assessment. Podiatry Today. 2021 May, 34(5). <https://www.hmpgloballearningnetwork.com/site/podiatry/practical-insights-current-and-emerging-options-pad-assessment>

## Invited Research Presentation:

**Evans JN, Michael P**, Pliagas GA. A team approach to CLI treatment: Leveraging the cardiology, vascular, podiatry, and wound care communities to optimize patient outcomes. Wound Care Learning Network Program, Fall 2021. Virtual.

# PSYCHIATRY

## Peer Reviewed Articles:

Bernson J, **Hedderich P**, Wendling AL. Examining access to psychiatric care in Michigan's Upper Peninsula. PRiMER. 2021 Dec 17;5: 44. doi:10.22454/PRiMER.2021.501713. PMID:35178506.

**Gautam M**, Kaur M, Sivananthan M. Parotid gland enlargement associated with clonazepam: A case report. J Acad Consult Liaison Psychiatry. 2021 Nov-Dec;62(6):657-658. doi:10.1016/j.jaclp.2021.06.003. PMID:34186253.

**Gautam M**, Patel S, Sablaban I, Sivananthan M. Burning mouth syndrome: Case report. J Clin Psychopharmacol. 2021 Jul-Aug 01;41(4):499-500. doi:10.1097/JCP.0000000000001413. PMID:34166257.

**Gautam M**, Patel S, Sablaban I. Intramuscular B52. Prim Care Companion CNS Disord. 2021 May 20;23(3):20br02855. doi:10.4088/PCC.20br02855. PMID:34015196.

**Gautam M**, Stodolak D, Krayem B. A rapidly reversed case of symptoms consistent with neuroleptic malignant syndrome. Prim Care Companion CNS Disord. 2021 Jun 10;23(3):20I02720. doi:10.4088/PCC.20I02720. PMID:34115452.

**Guina J**, Audu AK, Cameron J, Lemmen A, Mamidipaka A, Kletzka N. Prevalence of traumas and PTSD among individuals adjudicated not guilty by reason of insanity. J Am Acad Psychiatry Law. 2021 Jun;49(2):194-201. doi:10.29158/JAAPL.200062-20. PMID:33579733.

Katato H, **Gautam M**, Akinyemi E. Suspected delirious mania lasting for weeks after urinary tract infection in an elderly woman with no previous psychiatric history. Prim Care Companion CNS Disord. 2021 Jun 24;23(4):20I02800. doi:10.4088/PCC.20I02800. PMID:34167175.

Katato HK, **Gautam M**, Akinyemi EO. The danger of face masks on an inpatient psychiatric unit: New protocol to prevent self-harm. Prim Care Companion CNS Disord. 2021 Sep 2;23(5):20br03017. doi:10.4088/PCC.20br03017. PMID:34474509.

Sheikh AB, **Ijaz Z**, Javed N, Upadyay S, Shekhar R. COVID-19 with non-obstructive coronary artery disease in a young adult. J Community Hosp Intern Med Perspect. 2021 Jan 26;11(1):111-114. doi:10.1080/20009666.

Sheikh AB, Javed N, **Ijaz Z**, Barlas V, Shekhar R, Rukov B. Iron deficiency anemia in males: A dosing dilemma? J Community Hosp Intern Med Perspect. 2021 Jan 26;11(1):46-52. doi:10.1080/20009666.

Sheikh AB, Javed N, Leyba K, Khair AH, **Ijaz Z**, Dar AA, et al. Pet-assisted therapy for delirium and agitation in hospitalized patients with neurocognitive impairment: A review of literature. Geriatrics (Basel). 2021 Oct 1;6(4):96. doi:10.3390/geriatrics6040096. PMID:34698207.

Smith D, **Gautam M**, Krayem B. Olanzapine-induced aggression. Prim Care Companion CNS Disord. 2021 Feb 18;23(1):20I02719. doi:10.4088/PCC.20I02719. PMID:34000138.

## Invited Research Presentation:

**Rosen L**. Recent advances in the treatment of mental illness. Beaumont Health Symposium for Primary Care Medicine, Nov 5-6, 2021. Virtual.

# RADIATION ONCOLOGY

## Peer Reviewed Articles:

**Almahariq MF, Levitin R, Quinn TJ, Chen PY, Dekhne N, Kiran S, et al, [Jawad MS, Gustafson GS, Dilworth JT].** Omission of axillary lymph node dissection is associated with inferior survival in breast cancer patients with residual n1 nodal disease following neoadjuvant chemotherapy. *Ann Surg Oncol.* 2021 Feb;28(2):930-940. doi:10.1245/s10434-020-08928-2. PMID:32712895.

**Almahariq MF, Quinn TJ, Arden JD, Roskos PT, Wilson GD, \*Marples B, et al, [Grills IS, Chen PY, Krauss DJ, Chinnaiyan P, Dilworth JT].** Pulsed radiation therapy for the treatment of newly diagnosed glioblastoma. *Neuro Oncol.* 2021 Mar 25;23(3):447-456. doi:10.1093/neuonc/noaa165. PMID:32658268.

**Almahariq MF, Quinn TJ, Kesarwani P, Kant S, Miller CR, Chinnaiyan P.** Inhibition of colony-stimulating factor-1 receptor enhances the efficacy of radiotherapy and reduces immune suppression in glioblastoma. *In Vivo.* 2021 Jan-Feb;35(1):119-129. doi:10.21873/invivo.12239. PMID:33402457.

Andring L, **Squires B, Seymour Z, Fahim D, Jacob J, Ye H, et al, [Marvin K, Grills I].** Radionecrosis (RN) in patients with brain metastases treated with stereotactic radiosurgery (SRS) and immunotherapy. *Int J Neurosci.* 2021 Apr 19:1-8. doi:10.1080/00207454.2021.1900843. PMID:33685315.

**Arden JD, Dokter J, Almahariq MF, Marvin K, Nandalur SR, Al-Wahab Z, et al, [Jawad MS].** Toxicity and efficacy after adjuvant vaginal brachytherapy using 30 GYy in 6 fractions for Stages I and II endometrial cancer. *Adv Radiat Oncol.* 2021 Aug 12;6(6):100773. doi:10.1016/j.adro.2021.100773. PMID:34934859.

Asher AL, Alvi MA, Bydon M, Pouratian N, Warnick RE, McInerney J, et al, **[Grills IS].** Local failure after stereotactic radiosurgery (SRS) for intracranial metastasis: Analysis from a cooperative, prospective national registry. *J Neurooncol.* 2021 Apr;152(2):299-311. doi:10.1007/s11060-021-03698-7. PMID:33481148.

Bahado-Singh RO, Vishweswaraiah S, Aydas B, Yilmaz A, Metpally RP, et al, **[Wilson GD].** Artificial intelligence and leukocyte epigenomics: Evaluation and prediction of late-onset Alzheimer's disease. *PLoS One.* 2021 Mar 31;16(3):e0248375. doi:10.1371/journal.pone.0248375. PMID:33788842.

Bissonnette JP, Sun A, **Grills IS, Almahariq MF, Geiger G, Vogel W, et al.** Non-small cell lung cancer stage migration as a function of wait times from diagnostic imaging: A pooled analysis from five international centres. *Lung Cancer.* 2021 May;155:136-143. doi:10.1016/j.lungcan.2021.03.017. PMID:33819859.

Bojrab DI 2nd, Fritz CG, Lin KF, Schutt CA, Hong RS, Babu SC, et al, **[Chen PY, Maitz A].** A protective cap: Fundal fluid cap facilitates a reduction in inner ear radiation dose in the radiosurgical treatment of vestibular schwannoma. *Otol Neurotol.* 2021 Feb 1;42(2):294-299. doi:10.1097/MAO.0000000000002856. PMID:33443360.

Bojrab DI 2nd, Fritz CG, Lin KF, Schutt CA, Hong RS, Babu SC, et al, **[Chen PY, Maitz A].** Fundal fluid cap is associated with hearing preservation in the radiosurgical treatment of vestibular schwannoma. *Otol Neurotol.* 2021 Jan;42(1):137-144. doi:10.1097/MAO.0000000000002837. PMID:33055496.

Bojrab DI 2nd, Fritz CG, Lin KF, Schutt CA, Hong RS, Babu SC, et al, **[Chen PY, Maitz A]**. Pre-existing vestibular symptoms are associated with acute vestibular symptoms after gamma knife therapy for vestibular schwannoma. *Otol Neurotol*. 2021 Jul 1;42(6):912-917. doi:10.1097/MAO.0000000000003064. PMID:33591068.

Brisson RJ, **Quinn TJ, Deraniyagala RL**. The role of chemotherapy in the management of olfactory neuroblastoma: A 40-year surveillance, epidemiology, and end results registry study. *Health Sci Rep*. 2021 May 2;4(2):e257. doi:10.1002/hsr2.257. PMID:33969231.

Burke RM, Chen CJ, Ding D, Buell TJ, Sokolowski J, Sheehan KA, et al, **[Grills IS]**. Effect of prior embolization on outcomes after stereotactic radiosurgery for pediatric brain arteriovenous malformations: An international multicenter study. *Neurosurgery*. 2021 Sep 15;89(4):672-679. doi:10.1093/neuros/nyab245. PMID:34333653.

Campbell KC, Rehemtulla A, Sunkara P, **Hamstra D**, Buhnerkempe M, Ross B. Oral D-methionine protects against cisplatin-induced hearing loss in humans: Phase 2 randomized clinical trial in India. *Int J Audiol*. 2021 Oct 8:1-11. doi:10.1080/14992027.2021.1983215. PMID:34622731.

Cao L, Huang C, Cui Zhou D, Hu Y, Lih TM, Savage SR, et al, **[Wilson GD]**. Proteogenomic characterization of pancreatic ductal adenocarcinoma. *Cell*. 2021 Sep 16;184(19):5031-5052.e26. doi:10.1016/j.cell.2021.08.023. PMID:34534465.

\***Castillo E**, Nair G, Turner-Lawrence D, Myziuk N, Emerson S, Al-Katib S, et al, **[Quinn T, Guerrero TM]**. Quantifying pulmonary perfusion from noncontrast computed tomography. *Medical Physics*. 2021;48(4):1804-14. PMID:33608933

Cho WJ, Kessel D, Rakowski J, **Loughery B**, Najy AJ, Pham T, et al. Photodynamic therapy as a potent radiosensitizer in head and neck squamous cell carcinoma. *Cancers (Basel)*. 2021 Mar 10;13(6):1193. doi:10.3390/cancers13061193. PMID:33801879.

Colvin R, Walker D, Hafron J, Seifman B, **Nandalur S**, Gangwish D, et al. Which measurement method should be used for prostate volume for PI-RADS? A comparison of ellipsoid and segmentation methods. *Clin Imaging*. 2021 Dec, 80:454-458. doi:10.1016/j.clinimag.2021.09.003. PMID:34562834.

Dekhou A, Rehman R, **Parzen JS, Quinn TJ**, Zhang PL, Rontal M, et al, **[Deraniyagala R]**. Primary parotid tumor thrombosis: Immunohistologic features and awareness of metastatic potential. *Cureus*. 2021 Jul 4;13(7):e16174. doi:10.7759/cureus.16174. PMID:34367782.

Dougherty JM, \***Castillo E**, Castillo R, Faught AM, Pepin M, Park SS, et al, **[\*Guerrero TM, Grills IS]**. Functional avoidance-based intensity modulated proton therapy with 4DCT derived ventilation imaging for lung cancer. 2021 Jul;22(7):276–85. PMID:34159715

Forghani F, Patton T, Kwak J, Thomas D, Diot Q, Rusthoven C, et al, **[\*Castillo E, Grills I, Guerrero TM]**. Characterizing spatial differences between SPECT-ventilation and SPECT-perfusion in patients with lung cancer undergoing radiotherapy. *Radiother Oncol*. 2021 Jul;160:120-124. doi:10.1016/j.radonc.2021.04.022. PMID:33964328.

**Grzywacz V, Quinn TJ, Wilson T**, Reitemeier P, Navin M, **Hamstra D**, et al, **[Chinnaiyan P, Stevens C, Kabolizadeh P]**. Ethical allocation of proton therapy and the insurance review process. *Pract Radiat Oncol*. 2021 Sep-Oct 11(5):e449-e458. doi:10.1016/j.prro.2021.01.007. PMID:33548544.

He Y, **Zhao L**. Investigation of instability in ultrasonic welding under parametric excitation. *Int J Electr Eng Educ*;2021 Jan, 0020720920983508. doi:10.1177/0020720920983508.

Hsu IC, Rodgers JP, Shinohara K, Purdy J, Michalski J, Roach M 3rd, et al, [**Gustafson GS**]. Long-term results of NRG Oncology/RTOG 0321: A Phase II trial of combined high dose rate brachytherapy and external beam radiation therapy for adenocarcinoma of the prostate. *Int J Radiat Oncol Biol Phys*. 2021 Jul 1;110(3):700-707. doi:10.1016.

Hyer DE, **Ding X**, Rong Y. Proton therapy needs further technological development to fulfill the promise of becoming a superior treatment modality (compared to photon therapy). *J Appl Clin Med Phys*. 2021 Nov;22(11):4-11. doi:10.1002/acm2.13450. PMID:34730268.

Ionescu F, Jaiyesimi I, Petrescu I, Lawler PR, \***Castillo E**, Munoz-Maldonado Y, et al. Association of anticoagulation dose and survival in hospitalized COVID-19 patients: A retrospective propensity score-weighted analysis. *Eur J Haematol*. 2021 Feb;106(2):165-174. doi:10.1111/ejh.13533. PMID:33043484.

Ionescu F, Zimmer MS, Petrescu I, \***Castillo E**, Bozyk P, Abbas A, et al. Extubation failure in critically ill Covid-19 patients: Risk factors and impact on in-hospital mortality. *J Intensive Care Med*. 2021 Sep;36(9):1018-1024. doi:10.1177/08850666211020281. PMID:34074160.

Jia C, Zhang Z, **Zhao L**. Two-parameter localization for eigenfunctions of a Schrödinger operator in balls and spherical shells. *J Mathematical Physics* 2021 Sep 1;62(9):091505.

Kaufman CS, Cross MJ, Barone JL, Dekhne NS, Devisetty K, **Dilworth JT**, et al. A three-dimensional bioabsorbable tissue marker for volume replacement and radiation planning: A multicenter study of surgical and patient-reported outcomes for 818 patients with breast cancer. *Ann Surg Oncol*. 2021 May;28(5):2529-2542. doi:10.1245/s10434-020-09271-2. PMID:33221977.

Kishan AU, Karnes RJ, Romero T, Wong JK, Motterle G, Tosoian JJ, et al, [**Krauss DJ**]. Comparison of multimodal therapies and outcomes among patients with high-risk prostate cancer with adverse clinicopathologic features. *JAMA Netw Open*. 2021 Jul 1;4(7):e2115312. doi:10.1001/jamanetworkopen.2021.15312. PMID:34196715.

**Knill C, Sandhu R, Halford R, Snyder M, Lack D**. Simultaneous optimization of radiation-imaging coincidence for a multi-energy linac. *J Med Phys*. 2021 Apr-Jun;46(2):105-110. doi:10.4103/jmp.JMP\_7\_21. PMID:34566290.

**Knill C, Sandhu R, Halford R, Snyder M, Seymour Z**. Commissioning cranial single-isocenter multi-target radiosurgery for the Versa HD. *J Appl Clin Med Phys*. 2021 Apr;22(4):108-114. doi:10.1002/acm2.13223. PMID:33756044.

Kowalchuk RO, Shepard MJ, Sheehan K, Sheehan D, Faramand A, Niranjana A, et al, [**Grills IS, Parzen JS**]. Treatment of WHO grade 2 meningiomas with stereotactic radiosurgery: Identification of an optimal group for SRS using RPA. *Int J Radiat Oncol Biol Phys*. 2021 Jul 1;110(3):804-814. doi:10.1016/j.ijrobp.2021.01.048. PMID:33548341.

**Krauss DJ**, Rossi P. Prostate brachytherapy in cooperative group clinical trials: What is the best path forward in the radiosurgery era? *Brachytherapy* 2021;20(4):857–8. PMID:33994112.

Li H, Wan X, Yin P, **Zhao L**. Regularity and finite element approximation for two-dimensional elliptic equations with line Dirac sources. *J Comput Appl Math* 2021 Sep;393:113518.

<https://dx.doi.org/10.1016/j.cam.2021.113518>

- Li X, Ding X, Zheng W, Liu G, Janssens G, Souris K, et al, [\*Yan D, Stevens C, Kabolizadeh P].** Linear energy transfer incorporated spot-scanning proton arc therapy optimization: A feasibility study. *Front Oncol.* 2021 Jul 12;11:698537. doi:10.3389/fonc.2021.698537. PMID:34327139.
- Liu G, **Li X, Qin A, Zhou J, Zheng W, Zhao L, et al, [\*Yan D, Stevens C, Grills I, Ding X].** Is proton beam therapy ready for single fraction spine SBRS? - A feasibility study to use spot-scanning proton arc (SPArc) therapy to improve the robustness and dosimetric plan quality. *Acta Oncol.* 2021 May;60(5):653-657. doi:10.1080/0284186X.2021.1892183. PMID:33645429.
- Liu G, **Zhao L, Qin A, Grills I, Deraniyagala R, Stevens C, et al, [Zhang S, \*Yan D, Li X, Ding X].** Lung stereotactic body radiotherapy (SBRT) using spot-scanning proton arc (SPArc) therapy: A feasibility study. *Front Oncol.* 2021 Apr 22;11: 664455. doi:10.3389/fonc.2021.664455. PMID:33968770.
- Liu J, Pathak G, Joshi M, Andrews K, **Lee J.** A meta-analysis comparing the outcomes of syndesmotic injury treated with metal screw, dynamic fixation, and bioabsorbable screw. *J Orthop.* 2021 Apr 24;25:82-87. doi:10.1016/j.jor.2021.04.006. PMID:33994703.
- Liu P, Gao XS, Wang Z, Li X, Xi C, Jia C, et al, **[Ding X].** Investigate the dosimetric and potential clinical benefits utilizing stereotactic body radiation therapy with simultaneous integrated boost technique for locally advanced pancreatic cancer: A comparison between photon and proton beam therapy. *Front Oncol.* 2021 Sep 22;11: 747532. doi:10.3389/fonc.2021.747532. PMID:34631584.
- Loughery B, Chan D, Burmeister J, Dominello M.** Development of an in vivo technique for dose verification at the prone breast board / skin interface. *J Appl Clin Med Phys.* 2021 Apr;22(4):202-206. doi:10.1002/acm2.13229. PMID:33760370.
- Loving BA, Tang M, Neal MC, Gorkhali S, Murphy R, Eckel RH, et al.** Lipoprotein lipase regulates microglial lipid droplet accumulation. *Cells.* 2021 Jan 20;10(2):198. doi:10.3390/cells10020198. PMID:33498265.
- Mankuzhy NP, **Almahariq MF, Ye H, Amin M, Stone B, Krauss DJ.** Investigation of the prognostic significance of neuroendocrine differentiation in Gleason score 7 to 10 prostate adenocarcinoma in patients with distant metastasis after definitive radiotherapy. *Am J Clin Pathol.* 2021 May 18;155(6):879-886. doi:10.1093/ajcp/aqaa199. PMID:33283224.
- Mankuzhy NP, **Almahariq MF, Siddiqui ZA, Thompson AB, Grills IS, \*Guerrero TM, et al, [Lee KC, Stevens CW, Quinn TJ].** The role of postoperative radiation therapy for pN2 non-small-cell lung cancer. *Clin Lung Cancer.* 2021 Jan;22(1):e5-e17. doi:10.1016.
- McFarlane MR, Hochstedler KA, Laucis AM, Sun Y, Chowdhury A, Matuszak MM, et al, **[Kestin L, Grills I].** Predictors of pneumonitis after conventionally fractionated radiotherapy for locally advanced lung cancer. *Int J Radiat Oncol Biol Phys.* 2021 Dec 1;111(5):1176-1185. doi:10.1016/j.ijrobp.2021.07.1691. PMID:34314815.
- Mutter RW, Choi JI, Jimenez RB, Kirova YM, Fagundes M, Haffty BG, et al, **[Chen PY, Ding X, Carr AM].** Proton therapy for breast cancer: A consensus statement from the Particle Therapy Cooperative Group Breast Cancer Subcommittee. *Int J Radiat Oncol Biol Phys.* 2021 Oct 1;111(2):337-359. doi:10.1016/j.ijrobp.2021.05.110. PMID:34048815.
- Nair GB, Al-Katib S, Podolsky RH, Quinn T, **Stevens C, \*Castillo E.** Dynamic lung compliance imaging from 4DCT-derived volume change estimation. *Phys Med Biol.* 2021 Nov 3;66(21). doi:10.1088/1361-6560/ac29ce. PMID:34560677.



Nair GB, Al-Katib S, Turner-Lawrence D, Khasawneh M, **Myziuk N**, **\*Guerrero TM**, et al, [**\*Castillo E**]. A prospective study to validate pulmonary blood mass changes on non-contrast 4DCT in pulmonary embolism patients. *Clin Imaging*. 2021 Oct;78:179-183. doi:10.1016/j.clinimag.2021.02.023. PMID:33839544.

Nair GB, Galban CJ, Al-Katib S, Podolsky RH, van den Berge M, **Stevens C**, et al, [**\*Castillo E**]. An assessment of the correlation between robust CT-derived ventilation and pulmonary function test in a cohort with no respiratory symptoms. *Br J Radiol*. 2021 Feb 1;94(1118):doi:10.1259.

Nandalur KR, Colvin R, Walker D, **Nandalur SR**, Seifman B, Gangwish D, et al. Benign prostate hyperplasia as a potential protective factor against prostate cancer: Insights from a magnetic resonance imaging study of compositional characteristics. *Prostate*. 2021 Oct;81(14):1097-1104. doi:10.1002/pros.24207. PMID:34375453.

**Parzen JS, Almahariq MF, Quinn TJ, Siddiqui ZA, Thompson AB, \*Guerrero TM**, et al. Higher biologically effective dose is associated with improved survival in patients with squamous cell carcinoma of the lung treated with stereotactic body radiation therapy. *Radiother Oncol*. 2021 Jul;160:25-31. doi:10.1016/j.radonc.2021.04.010. PMID:33892021.

**Parzen JS**, Chuong MD, Chang J, Rosen L, Urbanic J, Hartsell W, et al, [**Stevens C, Kabolizadeh P**]. Dosimetry and acute toxicity profile of patients with esophageal cancer treated with proton beam radiation therapy: Outcomes from the proton collaborative group REG001-09 trial. *Adv Radiat Oncol*. 2021 Jul 15;6(5):100751. doi:10.1016/j.adro.2021.100751. PMID:34646969

**Parzen JS, Hamstra DA**. Patient-reported quality of life during prostate cancer radiation therapy: Insights into the patient experience. *Int J Radiat Oncol Biol Phys*. 2021 Jul 15;110(4):1129-1131. doi:10.1016/j.ijrobp.2021.02.028. PMID:34171237.

**Parzen JS, Li X, Zheng W, Ding X, Kabolizadeh P**. Proton therapy for skull-base chordomas and chondrosarcomas: Initial results from the Beaumont Proton Therapy Center. *Cureus*. 2021 May 27;13(5):e15278. doi:10.7759/cureus.15278. PMID:34194880.

**Parzen JS, Vayntraub A, Squires B, Almahariq MF, Thompson AB, Robertson JM**, et al, [**Kabolizadeh P, Quinn TJ**]. A population-based analysis of chemoradiation versus radiation alone in the definitive treatment of patients with stage I-II squamous cell carcinoma of the anus. *J Gastrointest Oncol*. 2021 Apr;12(2):831-844. doi:10.21037/jgo-20-530. PMID:34012670.

**Parzen JS, Zheng W, Li X, Ding X, Kabolizadeh P**. Optimization of field design in the treatment of rectal cancer with intensity modulated proton beam radiation therapy: How many fields are needed to account for rectal distension uncertainty? *Adv Radiat Oncol*. 2021 Jul 4;6(5):100749. doi:10.1016/j.adro.2021.100749. PMID:34646968.

Philipson RG, Romero T, Wong JK, Stish BJ, Dess RT, Spratt DE, et al, [**Krauss DJ**]. Patterns of clinical progression in radiorecurrent high-risk prostate cancer. *Eur Urol*. 2021 Aug;80(2):142-146. doi:10.1016/j.eururo.2021.04.035. PMID:33985797.

Pinatti LM, Sinha HN, Brummel CV, Goudsmit CM, **Geddes TJ, Wilson GD**, et al. Association of human papillomavirus integration with better patient outcomes in oropharyngeal squamous cell carcinoma. *Head Neck*. 2021 Feb;43(2):544-557. doi:10.1002/hed.26501. PMID:33073473.

**Porter EM, Myziuk NK, Quinn TJ**, Lozano D, Peterson AB, Quach DM, et al, [**Siddiqui AZ, \*Guerrero TM**]. Synthetic pulmonary perfusion images from 4DCT for functional avoidance using deep learning. *Phys Med Biol*. 2021 Aug 23;66(17). doi:10.1088/1361-6560/ac16ec. PMID:34293726.

Prabhu RS, Turner BE, Asher AL, Marcrom SR, Fiveash JB, Foreman PM, et al, **[Grills IS, Arden JD, Foster LM]**. Leptomeningeal disease and neurologic death after surgical resection and radiosurgery for brain metastases: A multi-institutional analysis. *Adv Radiat Oncol*. 2021 Jan 8;6(2):100644. doi:10.1016/j.adro.2021.100644. PMID:33732962.

Rehman R, Aoun M, **Levitin R, Quinn T, Kabolizadeh P**. Perivascular epithelioid cell tumor of the buttock region. *Cureus*. 2021 May 26;13(5):e15252. doi:10.7759/cureus.15252. PMID:34188991.

Rehman R, Squires B, Osto M, **Quinn T, Kabolizadeh P**. Hidradenocarcinoma of the abdominal wall treated with wide surgical excision and adjuvant radiotherapy. *Cureus*. 2021 Apr 27;13(4):e14724. doi:10.7759/cureus.14724. PMID:34094723.

Rimner A, Wu AJ, **Grills IS**. What is the impact of hippocampus avoidance-prophylactic cranial irradiation on neurocognitive preservation? *J Thorac Oncol*. 2021 May;16(5):722-724. doi:10.1016/j.jtho.2021.02.026. PMID:33896571.

Sahebjam S, Forsyth PA, Tran ND, Arrington JA, Macaulay R, Etame AB, et al, **[Chinnaiyan P]**. Hypofractionated stereotactic re-irradiation with pembrolizumab and bevacizumab in patients with recurrent high-grade gliomas: Results from a phase I study. *Neuro Oncol*. 2021 Apr 12;23(4):677-686. doi:10.1093/neuonc/noaa260. PMID:33173935.

Satpathy S, Krug K, Jean Beltran PM, Savage SR, Petralia F, Kumar-Sinha C, et al, **[Wilson GD]**. A proteogenomic portrait of lung squamous cell carcinoma. *Cell*. 2021 Aug 5;184(16):4348-4371.e40. doi:10.1016/j.cell.2021.07.016. PMID:34358469.

**Seymour ZA**, Chan JW, McDermott MW, **Grills I, Ye H**, Kano H, et al. Adverse radiation effects in volume-staged radiosurgery for large arteriovenous malformations: A multiinstitutional study. *J Neurosurg*. 2021 Aug 27;136(2):503-511. doi:10.3171.

Shepard MJ, Xu Z, Kearns K, Li C, Chatrath A, Sheehan K, et al, **[Grills IS, Parzen JS]**. Stereotactic radiosurgery for atypical (World Health Organization II) and anaplastic (World Health Organization III) meningiomas: Results from a multicenter, international cohort study. *Neurosurgery*. 2021 Apr 15;88(5):980-988. doi:10.1093/neuros/nyaa553. PMID:33469655.

**Snyder M, Vadas J, Musselwhite J, Halford R, Wilson G, Stevens C**, et al, **[\*Yan D]**. Technical note: FLASH radiotherapy monitor chamber signal conditioning. *Med Phys*. 2021 Feb;48(2):791-795. doi:10.1002/mp.14650. PMID:33296516.

Sponagel J, Zhang S, Frankfater C, Jones J, Selmanovic D, **Chinnaiyan P**, et al. FSMP-19. Sex differences in redox regulation underlie glutamine dependency in male glioblastoma. *Neuro-Oncology Advances*. 2021 Mar;3(Suppl 1):i19-20.

**Squires BS, Krauss DJ**. Single-dose radiotherapy for prostate cancer-lessons learned from single-fraction high-dose-rate brachytherapy. *JAMA Oncol*. 2021 Oct 1;7(10):1572. doi:10.1001/jamaoncol.2021.2691. PMID:34351373.

**Squires BS, Levitin R, Grills IS**. The US Preventive Services Task Force recommendation on lung cancer screening. *JAMA*. 2021 Aug 3;326(5):440-441. doi:10.1001/jama.2021.8240. PMID:34342624.

**Squires BS, Quinn TJ, Nandalur SR, Jawad MS**. Adjuvant radiotherapy improves overall survival when added to surgery and chemotherapy for uterine carcinosarcoma: A surveillance, epidemiology, and end results analysis. *Int J Clin Oncol*. 2021 Dec;26(12):2282-2294. doi:10.1007/s10147-021-02007-6. PMID:34427803.

**Sura K, Chen PY.** Determining the optimal treatment of locally advanced breast cancer with sequelae of dermatomyositis. *Int J Radiat Oncol Biol Phys.* 2021 Jul 15;110(4):940-941. doi:10.1016/j.ijrobp.2018.03.029. PMID:34171245.

Tagami T, **Almahariq MF**, Balanescu DV, **Quinn TJ, Dilworth JT**, Franklin BA, et al. Usefulness of coronary computed tomographic angiography to evaluate coronary artery disease in radiotherapy-treated breast cancer survivors. *Am J Cardiol.* 2021 Mar 15;143:14-20. doi:10.1016.

**To D, Xhaferllari I, Liu M, Liang J, Knill C, Nandalur S**, et al, [**Gustafson G, Lack D**]. Evaluation of Vmat planning strategies for prostate patients with bilateral hip prosthesis. *Technol Cancer Res Treat.* 2021 Jan-Dec;20:15330338211038490. doi:10.1177/15330338211038490. PMID:34490809.

Tseng YD, Pankuch M, Mohindra P, McGee L, Rossi C, Flampouri S, et al, [**Stevens C**]. Selection of mediastinal lymphoma patients for proton therapy within the Proton Collaborative Group Registry: Concordance with the ILROG Guidelines. *Am J Clin Oncol.* 2021 Jun 1;44(6):269-274. doi:10.1097/COC.0000000000000819. PMID:33852456.

**Vayntraub A, Quinn TJ, Thompson AB, Chen PY, Gustafson GS, Jawad MS**, et al, [**Dilworth JT**]. Left anterior descending artery avoidance in patients receiving breast irradiation. *Med Dosim.* 2021 Spring;46(1):57-64. doi:10.1016.

**Vayntraub A**, Tayeb N, **Squires B**, Mehnert JM, Hassan li Q, Sebastian NT, et al, [**Deryaniyagala R, Quinn TJ**]. The association of radiation therapy and chemotherapy on overall survival in merkel cell carcinoma: A population-based analysis. *Cureus.* 2021 Sep 25;13(9):e18276. doi:10.7759/cureus.18276. PMID:34722054.

Wang LB, Karpova A, Gritsenko MA, Kyle JE, Cao S, Li Y, et al, [**Wilson GD**]. Proteogenomic and metabolomic characterization of human glioblastoma. *Cancer Cell.* 2021 Apr 12;39(4):509-528.e20. doi:10.1016/j.ccell.2021.01.006. PMID:33577785.

Wilson CM, **Stromberg JS**, Seidell JW. Integrating prehabilitation, rehabilitation, and prospective surveillance into cancer interdisciplinary teams, *Oncology Issues* 2021;36:4, 46-55. doi:10.1080/10463356.2021.1930969

**Xhaferllari I**, Kim JP, Liyanage R, Liu C, Du D, Doemer A, et al. Clinical utility of Gafchromic film in an MRI-guided linear accelerator. *Radiat Oncol.* 2021 Jun 26;16(1):117. doi:10.1186/s13014-021-01844-z. PMID:34174932.

Xiang M, Ma TM, Savjani R, Pollom EL, Karnes RJ, Grogan T, et al, [**Krauss DJ**]. Performance of a prostate-specific membrane antigen positron emission tomography/computed tomography-derived risk-stratification tool for high-risk and very high-risk prostate cancer. *JAMA Netw Open.* 2021 Dec 1;4(12):e2138550. doi:10.1001/jamanetworkopen.2021.38550. PMID:34902034.

**Yan A, Hanna A, Wilson TG, Deraniyagala R, Krauss DJ, Grzywacz VP**, et al, [**\*Yan D, Wilson GD**]. Correlation between tumor voxel dose response matrix and tumor biomarker profile in patients with head and neck squamous cell carcinoma. *Radiother Oncol.* 2021 Nov;164:196-201. doi:10.1016/j.radonc.2021.09.027. PMID:34619238.

**\*Yan D, Chen S, Krauss DJ, Deraniyagala R, Chen P, Ye H**, et al, [**Wilson G**]. Inter/intra-tumoral dose response variations assessed using FDG-PET/CT feedback images: Impact on tumor control and treatment dose prescription. *Radiother Oncol.* 2021 Jan;154: 235-242. doi:10.1016.

**Zhao L**, Liu G, Zheng W, Shen J, Lee A, \***Yan D**, et al, [**Deraniyagala R, Stevens C, Li X**]. Building a precise machine-specific time structure of the spot and energy delivery model for a cyclotron-based proton therapy system. *Phys Med Biol*. 2021 Dec 14. doi:10.1088/1361-6560/ac431c. PMID:34905732.

### **Abstracts with Associated Research Presentations:**

**Almahariq MF, Parzen JS, Quinn TJ, Lee KC**, Guckenberger M, Klement RJ, et al, [**Ye H, Grills IS**]. Stereotactic body radiotherapy (SBRT) with biologically equivalent dose > 150 Gy is associated with improved local control in patients with squamous but not non-squamous cell carcinoma of the lung: A multi-institutional analysis. *Int J Rad Oncol Biol Phys* 2021 Nov 1;111(3):S127.

Bergsma D, Griffith K, Jaggi R, Dominello M, **Boike T, Dilworth J**, et al, [**\*Vicini FA**]. Abstract PD4-07: Contemporary practice patterns for the use of regional nodal irradiation during post-lumpectomy radiotherapy for patients with N0/N1 breast cancer. *Cancer Res* 2021 Feb 15;81(4S):PD4-07.

**Chang S, Liu G, Zhao L, Zheng W, Qin A, \*Yan D**, et al, [**Li X, Ding X**]. Develop a rotational robust optimized spot-scanning proton arc (SPArc) algorithm. *Med Phys* 2021 Jun;48(6):e392.

Chapman D, **Quinn TJ, Hamstra DA**. Validation of the combination Gleason score as an independent favorable prognostic factor in prostate cancer treated with dose-escalated radiotherapy. *Int J Radiat Oncol Biol Phys*. 2021 Nov 1;111(3):e267.

**Chen S, \*Yan D, Qin A**. Predictive capability and dynamic characteristic of tumor voxel dose-response assessed using 18F-FDG PET/CT imaging feedback. *Int J Radiat Oncol Biol Phys*. 2021 Nov 1;111(3):S97.

**Culcasi R, Snyder M**. Local temperature as a surrogate of inflammatory state induced by skin irritant. *Med Phys*. 2021 Jun;48(6):e404.

**Culcasi R, Snyder M**. Skin toxicity assessment using optical-wavelength video processing. *Med Phys*. 2021 Jun;48(6):e420.

Dekhou A, Rehman R, **Parzen J, Quinn T, Deraniyagala R**. Primary parotid tumor thrombosis: Immunohistologic features and awareness of metastatic potential. *Am J Dermatopathol*: 2021 Aug;43(S):1-14.

**Ding X**. SP-0144 Spot scanning arc therapy: From concept to first delivery. *Radiother Oncol* 2021 Aug 1;161:S91-2.

**Ding X**, Chang S, **Liu G, Zhao L, Zheng W, Qin A**, et al, [**Di Y, Li X**]. PO-1842 Introduce a new rotational robust optimized Spot-scanning Proton Arc (SPArc) framework. *Radiother Oncol* 2021 Aug 1;161:S1570-1.

**Ding X, Liu G, Zhao L, \*Yan D, Deraniyagala R, Stevens C**, et al, [**Li X**]. PD-0907 Modeling the first proton arc delivery sequence and investigating its efficiency improvement. *Radiother Oncol* 2021 Aug 1;161:S749-50.

**Ding X, Liu G, Zhao L, \*Yan D, Li X**. OC-0304 A novel direct machine-specific parameter Spot-scanning proton arc (SPArc) optimization algorithm. *Radiother Oncol* 2021 Aug 1;161:S211-3.

**Ding X, Zhao L, Liu G, Zheng W**, Shen J, Lee A, et al, [**Di Y, Deraniyagala R, Stevens C, Li X, Tang S**]. PD-0902 Do we need a precise proton machine-specific delivery sequence to assess the interplay effect? *Radiother Oncol* 2021 Aug 1;161:S742-3.

Edelman H, **Loughery B**. Monte Carlo (GATE/Geant4) estimation of clinician hand dose from radionuclide injection. *Med Phys* 2021 Jun;48(6):e513.

Forghani F, Castillo R, **\*Castillo E**, Jones BL, Rusthoven CG, Kwak J, et al, [**Grills IS**, **\*Guerrero TM**]. Is perfusion dose-response different than ventilation dose-response for lung cancer patients treated with radiotherapy? *Int J Radiat Oncol Biol Phys* 2021 Nov 1;111(3):S15.

**Grzywacz VP**, Lehrberg AV, **Quinn TJ**, Dekhne NS, **Dilworth JT**. Outcomes of patients with prior breast augmentation treated with breast conserving therapy. *Int J Radiat Oncol Biol Phys* 2021 Nov 1;111(3):e222.

**Grzywacz VP**, **\*Yan D**, **Chen S**, **Krauss DJ**, **Chen PY**, **Deraniyagala RL**. A novel approach to dose de-escalation in hpv-positive oropharyngeal chemoradiotherapy utilizing adaptive planning based on Voxel-level FDG response. *Int J Radiat Oncol Biol Phys* 2021 Nov 1;111(3):e404.

**Hazy AJ**, Saadat S, **Krauss DJ**, **Dilworth JT**, **Stevens CW**, Dixon S, et al. Clinical outcomes in patients undergoing coronary brachytherapy for restenosis of coronary vessels previously treated with drug eluting stents. *Int J Radiat Oncol Biol Phys* 2021 Nov 1;111(3):e41.

Herr DJ, Hochstedler K, Yin H, Dess RT, Matuszak MM, Grubb M, et al, [**Grills IS**]. Effect of education and standardization of cardiac dose constraints on heart dose in lung cancer patients receiving definitive radiation therapy across a statewide consortium. *Int J Radiat Oncol Biol Phys* 2021;111(3):S126.

Kishan AU, Wong JK, Merrick GS, Tran PT, Demanes DJ, Stish BJ, et al, [**Krauss DJ**]. The relationship between androgen deprivation therapy duration and external beam radiotherapy with or without a brachytherapy boost in high-risk prostate cancer. *Int J Radiat Oncol Biol Phys* 2021 Nov 1;111(3):S76-7.

**Krauss DJ**, Karrison TG, **\*Martinez AA**, Morton G, **\*Yan D**, Bruner DW, et al. Dose escalated radiotherapy alone or in combination with short-term androgen suppression for intermediate risk prostate cancer: Outcomes from the NRG Oncology/RTOG 0815 randomized trial. *Int J of Radiat Oncol Biol Phys* 2021 Nov 1;111(3):S1.

**Lack D**, **To D**, **Liang J**, **Liu M**, **Xhaferllari I**, **Stevens C**, et al, [**Grills I**, **\*Guerrero TM**, **\*Yan D**]. Evaluating impact of target location on intrafraction target motion for lung SRBT. *Med Phys* 2021 Jun;48(6):e361.

Laucis AMB, Hochstedler KA, **Boike TP**, **Movsas B**, **Stevens CW**, **Kestin LL**, et al, [**Grills IS**]. Predictors of early hospice or death in patients with inoperable lung cancer treated with curative intent. *J Clin Oncol*. 2021 May 20;39(15S):20525.

**Lee JS**, **Lee Jr KC**, Bojrab D, **Chen PY**, Jacob J, **Grills IS**. Long-term quality of life and audiometric outcomes following noninvasive stereotactic radiosurgery for acoustic neuromas. *Int J Radiat Oncol Biol Phys* 2021 Nov 1;111(3):e560.

LeMerise L, Morris E, **Loughery B**. Toward ending the manual annual: Lessons learned from the expansion of an automated output quality assurance technique to outside institutions. *Med Phys* 2021 Jun;48(6):e481.

**Liang J**, **\*Yan D**, **Wloch J**, **Sliwinski J**, **Grills I**, **Stevens C**, et al, [**\*Guerrero TM**]. Using previously registered CBCT image to facilitate online HCT to CBCT image registration in lung stereotactic body radiation therapy. *Med Phys* 2021 Jun;48(6):e372.

**Liu G, Zhao L, Qin A, Grills I, Deraniyagala R, Stevens CW**, et al, [**\*Yan D, Li X, Ding X**]. Lung stereotactic body radiotherapy (SBRT) using Spot-scanning Proton Arc (SPArc) therapy: A feasibility study. *Int J Radiat Biol Phys* 2021 Nov 1;111(3):e548.

**Liu G, Zhao L, \*Yan D, Deraniyagala RL, Stevens CW, Li X**, et al, [**Ding X**]. The first modeling of the Spot-scanning Proton Arc (SPArc) delivery sequence and investigating its efficiency improvement in the clinical proton treatment workflow. *Int J Radiat Biol Phys* 2021 Nov 1;111(3):e524, and *Med Phys* 2021 Jun;48(6):e138.

**Liu G, Zhao L, \*Yan D**, Janssens G, **Li X, Ding X**. The first investigation of Spot-Scanning Proton Arc (SPArc) delivery time and accuracy with different delivery tolerance window settings. *Med Phys* 2021 Jun 1;48(6):e395.

**Liu G, Zhao L, \*Yan D, Li X, Ding X**. A direct machine-specific parameters incorporated Spot-Scanning Proton Arc (SPArc) algorithm. *Int J Radiat Biol Phys* 2021 Nov 1, 111(3):e143, and *Med Phys* 2021 Jun;48(6):e277.

**Liu M, Xhaferllari I, Liang J, Lack D, Snyder M**. Dosimetric evaluation of dose accumulation in MIM and pinnacle system. *Med Phys*. 2021 Jun;48(6):e477.

**Liu Q, Liang J, \*Yan D**. Impact of flattening-filter-free field on online adaptive radiotherapy. *Med Phys* 2021 Jun;48(6):e352.

Lozano D, **Porter E, \*Guerrero TM**. MA02.10 Deriving pulmonary perfusion images from 4DCT using deep learning. *J Thorac Oncol* 2021;16(3):S137.

Mankuzhy N, **Grzywacz VP, Quinn TJ, Jawad MS, Gustafson GS, Dilworth JT**, et al, [**Chen PY**]. Thirty-year single institution experience of accelerated partial breast irradiation for early-stage breast cancer. *Int J Radiat Biol Phys* 2021 Nov 1;111(3):S36.

Moncion A, Wilson M, Ma R, Marsh R, Burmeister J, Dryden D, et al, [**Lack D, Dilworth J, \*Vicini FA**]. Leveraging a multi-institutional consortium to understand dose accuracy in the near-surface region for whole breast irradiation. *Med Phys*. 2021 Jun;48(6):e248.

Myziuk N, **Porter E, Snyder M**. DNA-scale does deposition surrounding heavy-metal nanoparticles irradiated with a monoenergetic kilovoltage-energy beam. *Med Phys*. 2021 Jun;48(6):e518.

Nair GB, Al-Katib S, Turner-Lawrence D, Ionescu F, Galban CJ, Van den Berge M, et al, [**Quinn T, \*Castillo E**]. A comparative study of ventilation perfusion mismatch derived from non-contrast CT scans in hospitalized COVID-19 patients. *Am J Respir Crit Care Med* 2021;203:A4467.

Nair GB, Lynch DA, Hatt C, Han MK, Galban CJ, **Stevens C**, et al, [**\*Castillo E**]. An exploratory study to characterize noncontrast CT derived lung perfusion in patients with COPD. *Am J Respir Crit Care Med* 2021;203:A4576.

**Parzen JS, Almahariq MF, Quinn TJ**, Siddiqui ZA, **Thompson A, \*Guerrero TM**, et al, [**Lee KC, Stevens CW, Grills IS**]. Assessing the benefit of higher biologically effective dose in patients with squamous cell carcinoma of the lung treated with stereotactic body radiation therapy. *Int J Radiat Biol Phys* 2021 Nov 1;111(3):e448.

**Parzen JS, Quinn TJ, Thompson AB**, Chang P, Collins SP, Suy S, et al, [**Seymour Z, Hamstra, DA**]. Evaluating the correlation between early and late quality-of-life declines using the Expanded Prostate Cancer Index Composite for Clinical Practice (EPIC-CP) after definitive stereotactic body

radiotherapy, intensity-modulated radiotherapy, or brachytherapy for prostate cancer. *J Clin Oncol* 2021 Feb 20, 39 (6S):214.

**Parzen JS, Wilson T, Stevens CW, Chinnaiyan P, Kabolizadeh P.** The downstream halo effect of opening a single-vault proton therapy facility at a cancer center. *Int J Radiat Biol Phys* 2021 Nov 1;111(3):e343.

Peng Y, Wu S, Liu Y, Chen M, Miao J, Zhao C, et al, **[Chen S]**. Synthetic CT generation from multi-sequence MR images for head and neck MRI-only radiotherapy via cycle-consistent generative adversarial network. *Int J Radiat Biol Phys* 2021 Nov 1, 111(3):e530.

**Qin A, Snyder M, Liang J, Chen S, \*Yan D.** Achievable accuracy of DIR for tumor/organ with large progressive shrinkage during the radiation treatment: A bio-tissue phantom study. *Int J Radiat Biol Phys* 2021 Nov 1;111(3):S17.

**Qin A, Zhao I, Chen S, Li X, Zheng W, \*Yan D,** et al, **[Deraniyagala R, Ding X]**. Toward online adaptive proton therapy of sinonasal cancer: The dosimetric accuracy of utilizing deep-learning-synthetic CT from CBCT for daily treatment dose verification. *Med Phys* 2021 Jun;48(6):e140.

**Qin A, Liu G, Chen S, Lewei Z, Zheng W, \*Yan D** et al, **[Grills IS, Stevens CW, Li X, Ding X]**. Investigate the feasibility of using CBCT to assess the dose validation for Spot-Scanning Proton Arc (SPArc) therapy for advanced staged lung cancer treatment. *Int J Radiat Biol Phys* 2021 Nov 1;111(3):S98.

Rajeev-Kumar G, Manjunath R, Harkenrider MM, Das P, Tendulkar RD, Corbin KS, et al, **[Jawad MS]**. Preliminary report assessing resident and faculty evaluations across radiation oncology programs. *Int J Radiat Biol Phys* 2021 Nov 1;111(3):e191.

Rehman R, Aoun M, **Levitin R, Quinn TJ, Kabolizadeh P.** Pecomma arising in the buttock region: A call for increased awareness of this tumor. *Am J Dermatopathol* 2021 Aug;43(S8):S2.

Rehman R, Squires B, Osto M, **Quinn T, Kabolizadeh P.** Hidradenocarcinoma of the abdominal wall treated with wide surgical excision and adjuvant radiotherapy. *Am J Dermatopathol* 2021 Aug;43(S8):S8.

**Salari K, Quinn TJ, Ding X, Abbott V, Chen PY, Dilworth JT.** Near-surface dose correlates with toxicity in patients receiving pencil beam scanning intensity modulated proton beam breast irradiation. *Int J Radiat Biol Phys* 2021 Nov 1;111(3):e225.

Santangelo T, Forghani F, Rusthoven C, Castillo R, **\*Castillo E,** Jones B et al, **[\*Guerrero TM]**. Changes in post-treatment cardiac PET avidity predict overall survival in lung cancer patients treated with chemoradiation. *Med Phys* 2021 Jun: 8(6):e238-9.

**Snyder M,** Halford R, **\*Yan D.** Mechanical wind-up motion phantom for MR-Linac daily quality assurance. *Med Phys.* 2021 Jun;48(6):e63.

**Squires BS, Grills IS, Fontanesi J, Quinn TJ, \*Guerrero TM, Stevens CW,** et al, **[Lee KC]**. Treatment of early-stage pulmonary carcinoid tumors with hypofractionated radiotherapy. *Int J Radiat Biol Phys* 2021 Nov 1;111(3):e464.

**Squires BS, Levitin R, Hazy AJ, Walters KJ, Maywood MJ, Delise AP,** et al, **[Almahariq MF, Chen PY, Dilworth JT]**. Near-surface dosimetry as a predictor for unplanned surgery or implant failure after post-mastectomy radiotherapy. *Int J Radiat Biol Phys* 2021 Nov 1;111(3):e226.

**Vadas J, Halford R, Wilson G, \*Yan D, Snyder M.** Analog FLASH pulse integration using an external diode circuit. *Med Phys* 2021 Jun;48(6), e415.

**\*Vicini FA, Shah C, Whitworth PW, Shivers SC, Warnberg F, Mann B, et al.** A novel biosignature identifies DCIS patients with a poor biologic subtype with an unacceptably high rate of local recurrence after breast conserving surgery and radiotherapy. *J Clin Oncol.* 2021 May 20;39(15S):513.

Vinogradskiy Y, Castillo R, **\*Castillo E**, Schubert LK, Jones BL, Faught AM, et al, **[Stevens CW, Grills IS, \*Guerrero TM]**. Results of a multi-institutional phase II clinical trial for 4DCT-ventilation functional avoidance thoracic radiotherapy. *Int J Radiat Oncol Biol Phys* 2021;111(3S):S8-S9.

**Willen B, Krauss DJ, Nandalur SR, Ye H, Marvin K, Lang D.** High dose rate brachytherapy as monotherapy vs. external beam with HDR boost in unfavorable intermediate risk localized prostate cancer: A matched-pair analysis. *Int J Radiat Oncol Biol Phys.* 2021 Nov 1;111(3):e297.

Yashar CM, Khan AJ, Haffty BG, **Chen PY**, Yehia ZA, **\*Vicini FA**, et al, **[Quinn TJ]**. Three-fraction TRIUMPH-T brachytherapy for delivery of apbi offers effective disease control with minimal late toxicity. *Int J Radiat Oncol Biol Phys* 2021;111(3S):S7.

**Zhao L, Liu G, Shen J, Lee A, \*Yan D, Deraniyagala R**, et al, **[Stevens C, Zheng W, Li X, Ding X]**. Assess the interplay effect based on the cyclotron accelerator proton therapy system machine-specific delivery sequence model. *Med Phys* 2021 Jun;48(6):e434.

**Zhao L, Liu G, \*Yan D, Li X, Ding X.** Investigate the delivery efficiency and accuracy of spot-scanning proton arc (SPArc) in comparison with conventional IMPT, automatic step-and-shoot multifield IMPT. *Med Phys* 2021 Jun: 48(6):e162-3.

**Zhao L, Liu G, Zheng W, Shen J, Lee AK, \*Yan D**, et al, **[Stevens CW, Li X, Ding X]**. Assessing the interplay effect based on a precise machine-specific delivery sequence and time for cyclotron accelerator proton therapy system. *Int J Radiat Oncol Biol Phys* 2021 Nov 1;111(3):e529-30.

**Zureick AH, Zakalik D, Rangarajan TS, Quinn TJ, Chen PY, Dilworth JT.** Breast irradiation is well tolerated in carriers of a pathogenic ATM variant. *Int J Radiat Oncol Biol Phys* 2021 Nov 1;111(3):e227.

### **Invited Research Presentations:**

**Chinnaiyan P.** Metabolic reprogramming in glioblastoma. William Davidson Medical Education Week. Oakland University William Beaumont School of Medicine. 20 May 2021. Virtual.

**Chinnaiyan P.** Metabolic reprogramming in glioblastoma: Biologic consequence and therapeutic implications. Beaumont Neurosurgery Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Apr 13.

**Parzen JS, Chuong M, Chang J, Rosen L, Urbanic J, Hartsell W, et al.** Dosimetry and toxicity profile of patients with esophageal cancer treated with proton beam radiotherapy: Outcomes from the Proton Collaborative Group REG001-09. The Particle Therapy Co-Operative Group (PTCOG) Annual Meeting;2021 Jun 4-7. Virtual.

**Vadas J.** Current state of LGBTQIA+ healthcare. American Association of Physicists in Medicine 63<sup>rd</sup> Annual Meeting & Exhibition;2021 Jul 25-29. Virtual.

**Zhao, L.** Structure sparsity of the spot optimization in proton arc therapy. The Great Lakes Section of SIAM (GLSIAM);2021 Apr 24th, Oakland University, Rochester, MI.



# RESEARCH ADMINISTRATION

## Peer- Reviewed Articles:

Bahl A, Diloreto E, Jankowski D, Hijazi M, **Chen NW**. Comparison of 2 midline catheter devices with differing antithrombogenic mechanisms for catheter-related thrombosis: A randomized clinical trial. *JAMA Netw Open*. 2021 Oct 1;4(10):e2127836. doi:10.1001/jamanetworkopen.2021.27836. PMID:34613402.

Bahl A, Gibson SM, Jankowski D, **Chen NW**. Short peripheral intravenous catheter securement with cyanoacrylate glue compared to conventional dressing: A randomized controlled trial. *J Vasc Access*. 2021 Jun 11:11297298211024037. doi:10.1177/11297298211024037. PMID:34112019.

Bahl A, Johnson S, Altwail M, Brackney A, Xiao J, Price J, et al, [**Chen NW**]. Left ventricular ejection fraction assessment by emergency physician-performed bedside echocardiography: A prospective comparative evaluation of multiple modalities. *J Emerg Med*. 2021 Dec;61(6):711-719. doi:10.1016/j.jemermed.2021.09.009. PMID:34654586.

Bahl A, Johnson S, **Chen NW**. Timing of corticosteroids impacts mortality in hospitalized COVID-19 patients. *Intern Emerg Med*. 2021 Sep;16(6):1593-1603. doi:10.1007/s11739-021-02655-6. PMID:33547620.

Bahl A, Johnson S, Maine G, Garcia MH, Nimmagadda S, **Qu L**, et al, [**Chen NW**]. Vaccination reduces need for emergency care in breakthrough COVID-19 infections: A multicenter cohort study. *Lancet Reg Health Am*. 2021 Dec;4:100065. doi:10.1016/j.lana.2021.100065. PMID:34522911.

Berger DA, **Chen NW**, Miller JB, Welch RD, Reynolds JC, Pribble JM, et al. Substantial variation exists in post-cardiac arrest outcomes across Michigan hospitals. *Resuscitation*. 2021 Feb;159:97-104. doi:10.1016.

Berkowitz BA, \***Podolsky RH**, **Childers KL**, Roberts R, Schneider M, Graffice E, et al. Correcting quest magnetic resonance imaging-sensitive free radical production in the outer retina in vivo does not correct reduced visual performance in 24-month-old c57bl/6j mice. *Invest Ophthalmol Vis Sci*. 2021 May 3;62(6):24. doi:10.1167/iovs.62.6.24. PMID:34036313.

Berkowitz BA, \***Podolsky RH**, **Childers KL**, Saadane A, Kern TS, Roberts R, et al. Sildenafil-evoked photoreceptor oxidative stress in vivo is unrelated to impaired visual performance in mice. *PLoS One*. 2021 Mar 4;16(3):e0245161. doi:10.1371/journal.pone.0245161. PMID:33661941.

Downer B, Avila J, **Chen NW**, Wong R. Imputation procedures for cognitive variables in the Mexican health and aging study: Evaluating the bias from excluding participants with missing data. *Real Datos Espacio*. 2021 May-Aug;12(2):90-105. PMID:34721821.

Fathi E, Yarbrow JM, **Homayouni R**. NIPSNAP protein family emerges as a sensor of mitochondrial health. *Bioessays*. 2021 Jun;43(6):e2100014. doi:10.1002/bies.202100014. PMID:33852167.

Flores DV, Rote S, Angel J, **Chen NW**, Downer B, Markides K. Depressive symptoms in child caregivers of very old Mexican Americans. *Aging Ment Health*. 2021 Jan;25(1):61-67. doi:10.1080/13607863.2017.1423024. PMID:32883095.

Gao S, Li Y, Bissig D, Cohen ED, \***Podolsky RH**, **Childers KL**, et al. Functional regulation of an outer retina hyporeflexive band on optical coherence tomography images. *Sci Rep*. 2021 May 13;11(1):10260. doi:10.1038/s41598-021-89599-1. PMID:33986362.

Halalau A, Odish F, Imam Z, Sharrak A, Brickner E, Lee PB, et al, [**Qu L**]. Epidemiology, clinical characteristics, and outcomes of a large cohort of Covid-19 outpatients in Michigan. *Int J Gen Med*. 2021 Apr 28;14:1555-1563. doi:10.2147/IJGM.S305295. PMID:33953603.

Ionescu F, Anusim N, Ma E, **Qu L**, Blankenship LM, Stender M, et al. Inferior vena cava filter retrieval trends: A single-center experience. *TH Open*. 2021 Feb 10;5(1):e73-e80. doi:10.1055/s-0040-1722707. PMID:33585788.

Lee DM, Berger DA, Wloszczynski PA, Karabon P, **Qu L**, Burla MJ. Assessing the impact of resuscitation residents on the treatment of cardiopulmonary resuscitation patients. *Am J Emerg Med*. 2021 Mar;41:46-50. doi:10.1016.

Nair GB, Al-Katib S, \***Podolsky RH**, Quinn T, Stevens C, Castillo E. Dynamic lung compliance imaging from 4DCT-derived volume change estimation. *Phys Med Biol*. 2021 Nov 3;66(21). doi:10.1088/1361-6560/ac29ce. PMID:34560677.

Nair GB, Al-Katib S, Turner-Lawrence D, Khasawneh M, Myziuk N, Guerrero T, et al, [**\*Podolsky RH**]. A prospective study to validate pulmonary blood mass changes on non-contrast 4DCT in pulmonary embolism patients. *Clin Imaging*. 2021 Oct, 78:179-183. doi:10.1016/j.clinimag.2021.02.023. PMID:33839544.

**Sharoar MG**, Palko S, Ge Y, Saido TC, Yan R. Accumulation of saposin in dystrophic neurites is linked to impaired lysosomal functions in Alzheimer's disease brains. *Mol Neurodegener*. 2021 Jul 2;16(1):45. doi:10.1186/s13024-021-00464-1. PMID:34215298.

**Sharoar MG**, Zhou J, Benoit M, He W, Yan R. Dynactin 6 deficiency enhances aging-associated dystrophic neurite formation in mouse brains. *Neurobiol Aging*. 2021 Nov;107:21-29. doi:10.1016/j.neurobiolaging.2021.07.006. PMID:34371284.

Sims M, \***Podolsky RH**, Maine GN, **Kennedy RH**, **Homayouni R**. Reply to Escandon et al. *Clin Infect Dis*. 2021 Dec 6;73(11):2149-2150. doi:10.1093/cid/ciab258. PMID:33754636.

Swor RA, **Chen NW**, Song J, Paxton JH, Berger DA, Miller JB, et al. Hospital length of stay, do not resuscitate orders, and survival for post-cardiac arrest patients in Michigan: A study for the Cares surveillance group. *Resuscitation*. 2021 Aug;165:119-126. doi:10.1016/j.resuscitation.2021.05.039. PMID:34166745.

Zhou J, Benoit M, **Sharoar MG**. Recent advances in pre-clinical diagnosis of Alzheimer's disease. *Metab Brain Dis*. 2021 Apr 26. doi:10.1007/s11011-021-00733-4. PMID:33900524.

### **Abstracts with Associated Research Presentations:**

Bukhsh M, Thyagarajan R, Todd B, **Chen NW**, **Qu L**, Swaminathan L. An emergency department-based response to the hepatitis A outbreak in Michigan: Improving Hepatitis A vaccination rates in high-risk populations. *Ann Emerg Med*. 2021 Oct;78 (Suppl 4):S106.

Fry A, **Chen NW**, Ho J, Kisser JE, Roskos PT. Comparing the reliability and validity characteristics of FIM and CARE tool: How do they stack up? *PM & R*. 2021;13(Suppl 1):S5-S6.

Mroue K, Kenaan I, Downing N, **Chen NW**. Effectiveness of drive-through evaluations at identifying low risk patients during a pandemic. *Acad Emerg Med*. 2021 May;28(Suppl 1):S296.

Pestano C, Easton RW, Ahlgren B, Vibert B, Papakonstantinou NS, Lipphardt M, et al, [**Chen NW**]. 197. Modest cost reduction associated with initial ERAS implementation in lumbar spine fusion. *Spine J* 2021;21(9):S100-S100.

Rykulski N, Berger D, Paxton J, Klausner HA, Smith GC, **Chen NW**, et al. Impact of missing data on measurement of cardiac arrest outcomes according to race. *Acad Emerg Med*. 2021;28(Suppl 1):S265.

Schneider M, Berkowitz BA, \***Podolsky RH**, **Lins Childers K**, Roberts R, Schilling B, et al. Visual performance declines in 24 mo C57BL/6J mice are unrelated to outer retina oxidative stress in vivo. *Invest Ophthalmol Vis Sci* 2021;62(8):2693.

Sims MD, Maine GN, **Childers KL**, \***Podolsky RH**, Voss DR, Berkiw-Scenna N, et al. Coronavirus Disease 2019 (COVID-19) seropositivity and asymptomatic rates in healthcare workers are associated with job function and masking. *Clin Infect Dis*. 2021 Jul 30;73(Suppl 2):S154-S162. doi:10.1093/cid/ciaa1684. PMID:33150375.

Swor RA, Paxton J, Berger D, Miller JB, Brett C, **Chen NW**. Correlation in hospital survival following out-of-hospital cardiac arrest with variation in post-arrest inpatient intervention rates in Michigan. *Circulation*, 2021 Nov 16;144(Suppl 2):A13607.

#### **Invited Research Presentations:**

Kasir R, Lundgren M, Detwiler A, **Chen NW**, Whaley J, Gael S, et al. Does day of surgery affect length of hospital stay after spine surgery. Apr 8–10, 2021. 14th Lumbar Spine Research Society Annual Scientific Meeting Oral and Poster Presentations. *J Neurosurg Spine*. 2021 Apr 1;34(4):1-103. doi:10.3171/2021.3.LSRS2021abstracts. PMID:33794487. Virtual.

**Sharoar MG**. Perceiving preclinical Alzheimer's disease by dystrophic neurites markers. Alzheimer's Strategic Planning Committee. Beaumont Health Research Institute, 2021 Oct 7. Virtual.

Zakko P, Kasir R, **Chen NW**, Park D. Dysphasia should be reported as a separate legacy outcome measure after anterior cervical discectomy and fusion. American Academy of Orthopaedic Surgeons, AAOS 2021 Annual Meeting, 2021 Sept 3. Virtual.

# **SUBSPECIALTY DIVISIONS OF SURGICAL SERVICES**

**BREAST CARE CENTER**

**CARDIOVASCULAR SURGERY**

**FEMALE PELVIC RECONSTRUCTIVE SURGERY**

**GENERAL SURGERY**

**NEUROSURGERY**

**OTOLARYNGOLOGY**

**PEDIATRIC SURGERY**

**PLASTIC SURGERY**

**THORACIC SURGERY**

**VASCULAR SURGERY**

# BREAST CARE CENTER

## Peer Reviewed Articles:

Almahariq MF, Levitin R, Quinn TJ, Chen PY, **Dekhne N**, Kiran S, et al, **[Benitez P]**. Omission of axillary lymph node dissection is associated with inferior survival in breast cancer patients with residual n1 nodal disease following neoadjuvant chemotherapy. *Ann Surg Oncol*. 2021 Feb;28(2):930-940. doi:10.1245/s10434-020-08928-2. PMID:32712895.

Kaufman CS, Cross MJ, Barone JL, **Dekhne NS**, Devisetty K, Dilworth JT, et al. A three-dimensional bioabsorbable tissue marker for volume replacement and radiation planning: A multicenter study of surgical and patient-reported outcomes for 818 patients with breast cancer. *Ann Surg Oncol*. 2021 May;28(5):2529-2542. doi:10.1245/s10434-020-09271-2. PMID:33221977.

Lehrberg A, Sebai M, Finn D, Lee D, Karabon P, Kiran S, et al, **[Dekhne N]**. Trends, survival outcomes, and predictors of nonadherence to mastectomy guidelines for nonmetastatic inflammatory breast cancer. *Breast J*. 2021 Aug 24. doi:10.1111/tbj.14283. PMID:34431161.

## Abstracts with Associated Research Presentations:

Grzywacz VP, Lehrberg AV, Quinn TJ, **Dekhne NS**, Dilworth JT. Outcomes of patients with prior breast augmentation treated with breast conserving therapy. *Int J Radiat Oncol Biol Phys* 2021 Nov 1;111(3):e222.

McLaughlin SA, Lee MC, Feldman SM, Rosen B, Grignol VP, Wallace AM, et al, **[Dekhne NS]**. Pegloprastide-based ratiometric fluorescence imaging detects intraoperative positive margins in real-time. *Ann Surg Oncol* 2021 May;28(S2):S230–231.

# CARDIOVASCULAR SURGERY

## Peer Reviewed Articles:

Abbas AE, Mando R, Kadri A, Khalili H, Hanzel G, **Shannon F**, et al. Comparison of transvalvular Aortic mean gradients obtained by intraprocedural echocardiography and invasive measurement in balloon and self-expanding transcatheter valves. *J Am Heart Assoc.* 2021 Oct 5;10(19):e021014. doi:10.1161/JAHA.120.021014. PMID:34585593.

Bond CJ, Milojevic M, He C, Theurer PF, Clark M, Pruitt AL et al, **[Dabir R]**. Quality improvement: Arterial grafting redux, 2010:2019. *Ann Thorac Surg.* 2021 Jul;112(1):22-30. doi:10.1016.

Brescia AA, Clark MJ, Theurer PF, Lall SC, Nemeh HW, Downey RS, et al, **[Dabir R]**. Establishment and implementation of evidence-based opioid prescribing guidelines in cardiac surgery. *Ann Thorac Surg.* 2021 Oct;112(4):1176-1185. doi:10.1016.

Brescia AA, Deeb GM, Sang SLW, Tanaka D, Grossman PM, Sukul D, et al, **[Shannon FL]**. Surgical explantation of transcatheter aortic valve bioprostheses: A statewide experience. *Circ Cardiovasc Interv.* 2021 Apr;14(4):e009927. doi:10.1161/CIRCINTERVENTIONS.120.009927. PMID:33719506.

Hite A, Karabon P, Mando R, Hanzel G, **Shannon F**, Abbas AE. The Impact of energy loss index and body mass index on prosthesis patient mismatch. *Structural Heart.* 2021 Jul 1;5(4):376-81.

Kadri AN, Hanzel G, Elmariah S, **Shannon F**, Al-Azizi K, Boura J, et al. Invasive versus echocardiographic gradients in degenerated surgical aortic valve prostheses: A multicenter study. *JTCVS Open.* 2021 Sep 1;7:51-60.

Kereiakes DJ, Answini GA, Yakubov SJ, Rai B, Smith JM, Duff S, et al, **[Shannon FL]**. Preliminary evaluation of a novel polymeric valve following surgical implantation for symptomatic aortic valve disease. *JACC Cardiovasc Interv.* 2021 Dec 27;14(24):2754-2756. doi:10.1016/j.jcin.2021.08.071. PMID:34949403.

Lau WC, **Shannon FL**, Bolling SF, Romano MA, Sakwa MP, Trescot A, et al. Intercostal cryo nerve block in minimally invasive cardiac surgery: The prospective randomized FROST trial. *Pain Ther.* 2021 Dec;10(2):1579-1592. doi:10.1007/s40122-021-00318-0. PMID:34545530.

Milojevic M, Bond C, He C, **Shannon FL**, Clark M, Theurer PF, et al. Failure to rescue: Variation in mortality after cardiac surgery. 2021 Nov 22;33(6):848–856. doi:10.1093/icvts/ivab188. PMID:34259841.

**Shannon FL**. Appreciation of the lifelong repercussions of postoperative atrial fibrillation. *Ann Thorac Surg.* 2021 Feb;111(2):554-555. doi:10.1016.

Wagner CM, Clark MJ, Theurer PF, Lall SC, Nemeh HW, Downey RS, et al, **[Dabir RR, Robinson PL]**. Predictors of discharge home without opioids after cardiac surgery: A multicenter analysis. *Ann Thorac Surg.* 2021 Dec 9:S0003-4975(21)01842-7. doi:10.1016/j.athoracsur.2021.10.005. PMID:34924190.

## Abstracts with Associated Research Publications:

Kadri AN, Hanzel G, Mando R, Ali A, **Shannon F**, Vivacqua A, et al. The Impact of flow improvement after transcatheter aortic valve replacement on mortality in patients with low flow and severe aortic stenosis. *J Am Coll Cardiol* 2021 May 11;77(18 Suppl 1):905.

Khalili H, Abbas A, Pilgrim T, Okuno T, Elmariah S, Al-Azizi K, et al, **[Shannon F]**. Comparisons of echocardiographic and invasive aortic gradient assessment in aortic stenosis, degenerated surgical bioprosthesis, native and valve-in-valve Tavr: A Multicenter study. J Am Coll Cardio 2021 May 11;77(18 Suppl 1):917.

**Invited Research Presentations:**

Aggarwal S, Bloomingdale R, Bradshaw J, **Brown OW**, Lau W, Vivacqua A. New techniques for the minimally invasive treatment of aortic disease. Beaumont Health On Demand Series. Dec 17, 2021. Virtual.

# FEMALE PELVIC RECONSTRUCTIVE SURGERY

## Peer Reviewed Articles:

Baunoch D, Luke N, Wang D, **Vollstedt A**, Zhao X, Ko DSC, et al, [**Sirls LT**]. Concordance between antibiotic resistance genes and susceptibility in symptomatic urinary tract infections. *Infect Drug Resist*. 2021 Aug 19;14:3275-3286. doi:10.2147/IDR.S323095. PMID:34447256.

**Gilleran J**, Diokno AC, Ward E, **Sirls L**, Hasenau D, **Giordano J**, et al. Improved global response outcome after intradetrusor injection of adult muscle-derived cells for the treatment of underactive bladder. *Int Urol Nephrol*. 2021 Jul;53(7):1331-1338. doi:10.1007/s11255-021-02847-1. PMID:33840007.

**Han E**, Killinger KA, Turner KM, **Gilleran J**, Tenney D, Peters KM. Small fiber polyneuropathy in hunner lesion and non-hunner lesion interstitial cystitis/bladder pain syndrome. *Female Pelvic Med Reconstr Surg*. 2021 Jan 1;27(1):e91-e95. doi:10.1097/SPV.0000000000000824. PMID:32217920.

Killinger KA, Henrichsen JL, Han E, Dai YL, Nguyen L, et al, [**Sirls L**]. Symptom and quality of life improvements after pelvic floor physical therapy in a clinical population of women with pelvic pain and other symptoms. *Female Pelvic Med Reconstr Surg*. 2021 Jan 1;27(1):e18-e21. doi:10.1097/SPV.0000000000000783. PMID:31697265.

**Vollstedt AJ**, **Han E**, Nguyen L, **Tennyson L**, Beck D, **Sirls L**. Placement of mid-urethral mesh slings at the time of vaginal prolapse repair does not affect post-operative sexual function or orgasm. *Int Urogynecol J*. 2021 Mar;32(3):639-645. doi:10.1007/s00192-020-04479-y. PMID:32780171.

## Abstracts with Associated Research Presentations:

**Vollstedt A**, **Tennyson L**, Rezaee M, **Hoang L**, **Sirls L**, **Padmanabhan P**, et al. Fractional carbon dioxide vaginal laser for the treatment of urinary symptoms: Preliminary short-term results. *Neurol Urodyn* 2021 Feb;40:S225–6.

**Vollstedt A**, Wang D, Luke N, Baunoch D, Wojno K, Cline K, et al, [**Gaines N**, **Korman H**, **Mohammad S**, **Wenzler D**, **Burks F**, **Sirls L**]. Concordance between antibiotic resistance genes by multiplex polymerase chain reaction and antibiotic susceptibility by pooled antibiotic sensitivity testing in symptomatic patients with urinary tract infection. *Neurol Urodyn*, 2021 Feb;40:S27–S28.

**Vollstedt, A**, Wang D, Luke N, Baunoch D, **Wojno KJ**, Cline K, et al, [**Gaines N**, **Korman H**, **Mohammad S**, **Wenzler D**, **Burks F**, **Sirls L**]. Defining and detecting bacterial consortia within urine samples of patients with symptomatic urinary tract infection. *J Urol*. 2021 Sep;206(S3):e457.

## Invited Research Presentations:

Gracely A, Lane GI, Uberoi P, Lee U, Smith A, Anger J, et al, [**Padmanabhan P**]. Changes in patient reported outcome measures after treatment of female urethral stricture. The Annual Winter Meeting of the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction, 2021 Feb 25-27. Virtual. <https://sufuorg.com/docs/meetings/sufu2102/program-book-abstracts.aspx>

Hoang Roberts L, Volin J, McCartney T, **Vollstedt A**, Peters KM. Stimwave for pudendal neuralgia. The Annual Winter Meeting of the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction, 2021 Feb 25-27. Virtual. <https://sufuorg.com/docs/meetings/sufu2102/program-book-abstracts.aspx>



Korman A, Ramanathan S, Korman J, Ramanathan S, **Balaraman S**, Luke N et al. Innovative workflow to collect home urine samples from symptomatic patients sheltered in place during COVID-19. The Annual Winter Meeting of the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction, 2021 Feb 25-27. Virtual. <https://sufuorg.com/docs/meetings/sufu2102/program-book-abstracts.aspx>

Pezzella A, McCrery R, Lane F, Benson K, Taylor C, Padron O, et al, **[Peters KM]**. Two-year outcomes of the Artisan-SNM study for the treatment of urinary urgency incontinence with the Axonics rechargeable sacral neuromodulation system. The Annual Winter Meeting of the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction, 2021 Feb 25-27. Virtual. <https://sufuorg.com/docs/meetings/sufu2102/program-book-abstracts.aspx>

Reynolds WS, Suskind AM, Anger JT, Brucker BM, Pelletier PA, et al, **[Padmanabhan P]**. Incomplete bladder emptying and urinary tract infections after onabotulinumtoxinA injection for overactive bladder in men and women: Multi-institutional collaboration from the SUFU research network. The Annual Winter Meeting of the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction, 2021 Feb 25-27. Virtual. <https://sufuorg.com/docs/meetings/sufu2102/program-book-abstracts.aspx>

Sharrak A, **Hoang Roberts L**, Vollstedt A, **Fischer M**, **Han E**. Parental leave satisfaction in physicians compared to non-physicians. The Annual Winter Meeting of the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction, 2021 Feb 25-27. Virtual. <https://sufuorg.com/docs/meetings/sufu2102/program-book-abstracts.aspx>

Vollstedt A, **Tennyson L**, Rezaee M, **Hoang Roberts L**, **Sirls L**, **Padmanabhan P**, et al, **[Peters KM]**. Fractional carbon dioxide vaginal laser for the treatment of urinary symptoms: Preliminary short-term results. The Annual Winter Meeting of the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction, 2021 Feb 25-27. Virtual. <https://sufuorg.com/docs/meetings/sufu2102/program-book-abstracts.aspx>

**Vollstedt A**, Wang D, Luke N, Baunoch D, **Wojno K**, Cline K, et al, **[Sirls L]**. Are consortia polymicrobial urinary tract infections more symptomatic than monomicrobial? Results from a multi-institutional study. The Annual Winter Meeting of the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction, 2021 Feb 25-27. Virtual. <https://sufuorg.com/docs/meetings/sufu2102/program-book-abstracts.aspx>

**Vollstedt A**, Wang D, Luke N, Baunoch D, **Wojno K**, Cline K, et al, **[Sirls L]**. Concordance between antibiotic resistance genes by multiplex polymerase chain reaction and antibiotic susceptibility by pooled antibiotic sensitivity testing in symptomatic patients with urinary tract infection. The Annual Winter Meeting of the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction, 2021 Feb 25-27. Virtual. <https://sufuorg.com/docs/meetings/sufu2102/program-book-abstracts.aspx>

**Vollstedt A**, Wang D, Luke N, Baunoch D, **Wojno K**, Cline K, et al, **[Sirls L]**. Defining and detecting bacterial consortia within urine samples of patients with symptomatic urinary tract infection. The Annual Winter Meeting of the Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction, 2021 Feb 25-27. Virtual. <https://sufuorg.com/docs/meetings/sufu2102/program-book-abstracts.aspx>

# GENERAL SURGERY

## Peer Reviewed Articles:

**Abdu R, Vasyluk A, Reddy N, Huang LC, Halka JT, DeMare A, et al, [Janczyk R, Iacco A].** Hybrid robotic transversus abdominis release versus open: Propensity-matched analysis of 30-day outcomes. *Hernia*. 2021 Dec;25(6):1491-1497. doi:10.1007/s10029-020-02249-9. PMID:32607651.

**Al-Feghali VE, Sigley K, Laird R.** Diaphragm disease of the small bowel presenting with intussusception. *Cureus*. 2021 Dec 31;13(12):e20855. doi:10.7759/cureus.20855. PMID:34993047.

**Al-Hadidi A, Amine M, Batman A, Hakmeh W.** Homemade cardiac and vein cannulation ultrasound phantoms for trauma management training in resource-limited settings. *Avicenna J Med*. 2021 Jan 5;11(1):42-45. doi:10.4103/ajm.ajm\_196\_20. PMID:33520789.

Almahariq MF, Levitin R, Quinn TJ, Chen PY, Dekhne N, Kiran S, Desai A, et al, **[Benitez P].** Omission of axillary lymph node dissection is associated with inferior survival in breast cancer patients with residual N1 nodal disease following neoadjuvant chemotherapy. *Ann Surg Oncol*. 2021 Feb;28(2):930-940. doi:10.1245/s10434-020-08928-2. PMID:32712895.

**Angus A, DeMare A, Iacco A.** Evaluating outcomes for robotic-assisted inguinal hernia repair in males with prior urologic surgery: A propensity-matched analysis from a national database. *Surg Endosc*. 2021 Sep;35(9):5310-5314. doi:10.1007/s00464-020-08020-6. PMID:33006032.

**Boudiab EM, Lapkus M, Reilly J, Studzinski D, Czako P, Asbahi M, et al, [Schostak M, Nagar S].** Cervical endocrine surgery with a novel opioid-limited perioperative protocol. *Am Surg*. 2021 Jun 11;31348211025736. doi:10.1177/00031348211025736. PMID:34114505.

**Boudiab EM, Zaikos TD, Issa C, Chaiyasate K, Lu SM.** Trends in craniofacial injuries associated with the introduction of electric scooter sharing services. *FACE*. 2021;2(1):89-93.

Chagpar AB, Dupont E, Chiba A, Levine EA, Gass JS, Lum S, et al, **[Brown E].** Are we choosing wisely? Drivers of preoperative MRI use in breast cancer patients. *Am J Surg*. 2021 Oct 23:S0002-9610(21)00620-6. doi:10.1016/j.amjsurg.2021.10.028 PMID:34706816.

Chagpar AB, Garcia-Cantu C, Howard-McNatt MM, Gass JS, Levine EA, Chiba A, et al, **[Brown E].** Does localization technique matter for non-palpable breast cancers? *Am Surg*. 2021 Apr 15;31348211011135. doi:10.1177/00031348211011135. PMID:33856948.

Dupont E, Tsangaris T, Garcia-Cantu C, Howard-McNatt M, Chiba A, Berger AC, et al, **[Brown EA].** Resection of cavity shave margins in stage 0-iii breast cancer patients undergoing breast conserving surgery: A prospective multicenter randomized controlled trial. *Ann Surg*. 2021 May 1;273(5):876-881. doi:10.1097/SLA.0000000000003449. PMID:31290763.

Erwin PA, Lee AC, Ahmad U, Antonoff M, Arndt A, Backhus L, et al, **[Watson T].** Consensus for thoracoscopic lower lobectomy: Essential components and targets for simulation. *Ann Thorac Surg*. 2021 Oct 21:S0003-4975(21)01746-X. doi:10.1016/j.athoracsur.2021.09.033. PMID:34688617.

Field JP, Zuckerwise LC, **DeMare AM, Zhao S, Lipscomb BE, Raees MA, et al.** Identifying prenatal ultrasound predictors and the ideal neonatal management of closing gastroschisis: The key is prevention. *J Perinatol*. 2021 Dec;41(12):2789-2794. doi:10.1038/s41372-021-01006-9. PMID:33790403.

**Brahmamdram P, Tom A.** Mortality from gastrointestinal congenital anomalies at 264 hospitals in 74 low-income, middle-income, and high-income countries: A multicentre, international, prospective cohort study. *Lancet*. 2021 Jul 24;398(10297):325-339. doi:10.1016/S0140-6736(21)00767-4. PMID:34270932.

**Hammoud M, Gerken J.** Inguinal hernia. 2021 Aug 22. Treasure Island, FL. StatPearls Publishing. PMID:30020704.

**Hart J, DeSano J, Hajjar R, Lumley C.** Total scrotal reconstruction following Fournier's gangrene with bilateral prelaminate superior medial thigh flaps. *BMJ Case Rep*. 2021 Apr 15;14(4):e240618. doi:10.1136.

**Hawasli A, Foster R, Lew D, Peck L.** Laparoscopic Ligamentum Teres cardiopexy to the rescue, an old procedure with a new use in managing reflux after sleeve gastrectomy. *Am J Surg*. 2021 Mar;221(3):602-605. doi:10.1016.

Howard-McNatt M, Dupont E, Tsangaris T, Garcia-Cantu C, Chiba A, Berger AC, et al, **[Brown EA]**. Impact of cavity shave margins on margin status in patients with pure ductal carcinoma in situ. *J Am Coll Surg*. 2021 Apr;232(4):373-378. doi:10.1016.

Issa CJ, Lu SM, **Boudiab EM**, DeSano J, Sachanandani NS, Powers JM, et al. Comparing plastic surgeon operative time for DIEP flap breast reconstruction: 2-stage more efficient than 1-stage? *Plast Reconstr Surg Glob Open*. 2021 Jun 7;9(6):e3608. doi:10.1097/GOX.0000000000003608. PMID:34104615.

John SC, **Mohammed A**, Church JT, John AV, Perkins EM, McLeod JS, et al. Bubble bilevel ventilation facilitates gas exchange in anesthetized rabbits. *Pediatr Res*. 2021 Feb;89(3):622-627. doi:10.1038/s41390-020-0928-0. PMID:32357365.

Kaufman CS, Cross MJ, Barone JL, **Dekhne NS**, Devisetty K, Dilworth JT, et al. A three-dimensional bioabsorbable tissue marker for volume replacement and radiation planning: A multicenter study of surgical and patient-reported outcomes for 818 patients with breast cancer. *Ann Surg Oncol*. 2021 May;28(5):2529-2542. doi:10.1245/s10434-020-09271-2. PMID:33221977.

**Lehrberg A, Sebai M, Finn D**, Lee D, Karabon P, **Kiran S**, et al. Trends, survival outcomes, and predictors of nonadherence to mastectomy guidelines for nonmetastatic inflammatory breast cancer. *Breast J*. 2021 Aug 24. doi:10.1111/tbj.14283. PMID:34431161.

**Lew D**, Thampy C, **Hawasli A**. Lack of efficacy of dual intragastric balloon therapy on weight loss and patient dissatisfaction. *Am J Surg*. 2021 Mar;221(3):581-584. doi:10.1016.

Lu SM, Waldman LE, **Boudiab EM**, Lopez CD, Bassiri-Tehrani B, DelMauro MA, et al. Incidence, impact, and management of incidentalomas on preoperative computed tomographic angiograms for breast cancer patients with and without genetic mutations. *Plast Reconstr Surg*. 2021 Jun 1;147(6):1259-1269. doi:10.1097/PRS.0000000000007941. PMID:33974589.

Orelaru F, Karabon P, Novotny N, Akay B, **Brahmamdram P**. Impact of *Clostridium difficile* infection on pediatric appendicitis. *Pediatr Surg Int*. 2021 Jul;37(7):865-870. doi:10.1007/s00383-021-04893-3. PMID:33830299.

**Pastewski J, Baker D, Somerset A**, Leonard K, Azzie G, Roach VA, et al, **[Ziegler K, Brahmamdram P]**. Analysis of instrument motion and the impact of residency level and concurrent distraction on laparoscopic skills. *J Surg Educ*. 2021 Jan-Feb;78(1):265-274. doi:10.1016.

Patel N, Allen M, Arianpour K, **Keidan R**. The utility of ICG fluorescence for sentinel lymph node identification in head and neck melanoma. *Am J Otolaryngol*. 2021 Sep-Oct;42(5):103147. doi:10.1016/j.amjoto.2021.103147. PMID:34237540.

**Reilly J**, Faridmoayer E, **Lapkus M**, **Pastewski J**, Sun F, Elassar H, et al, [**Czako P**, **Nagar S**]. Vascular invasion predicts advanced tumor characteristics in papillary thyroid carcinoma. *Am J Surg*. 2021 Dec 9:S0002-9610(21)00724-8. doi:10.1016/j.amjsurg.2021.11.038. PMID:34952686.

**Rosado M**, **Serena T**, **Martinez Z**, **Schwartz E**, **Mainster H**. A rare case of jejunal perforation due to post-transplant lymphoproliferative disease 27 years after liver transplant. *J Transplant Surg*. 2021 Jun 23;4(1):75-79. doi:10.36959/338/337.

**Rosado M**, **Serena T**, **Pui J**, **Parmely J**. A case report of a ruptured Meckel's diverticulum with ectopic gastric and pancreatic tissue with negative computed tomography. *Int J Surg Case Rep*. 2021 Jun;83:105994. doi:10.1016/j.ijscr.2021.105994. PMID:34098189.

Sabak M, **Al-Hadidi A**, Oktay MM, Al B, Kazaz T, Kowalenko T, et al. Workplace violence in emergency departments in Turkey. *Avicenna J Med*. 2021 Aug 13;11(3):111-117. doi:10.1055/s-0041-1732284. PMID:34646787.

**Salita A**, **Rosado M**, **Mack K**, **Pui J**, **Zekman R**, **Dinnan K**. Metastatic lobular carcinoma of the breast found incidentally on pathology following cholecystectomy for chronic cholecystitis: A case report. *Int J Surg Case Rep*. 2021 Mar;80:105612. doi:10.1016/j.ijscr.2021.01.106. PMID:33636408.

Sandhu H, **Foote DC**, Evans J, Santosa KB, Kemp MT, Donkersloot JN, et al. "The story I will never forget": Critical incident narratives in surgical residency. *Ann Surg*. 2021 Sep 16. doi:10.1097/SLA.0000000000005219. PMID:34534986.

**Serena TJ**, **Solomon Schnurr CA**, **Pui JC**, **Gerken JR**. Surgical excision of sclerosing mesenteritis, exploration of an unknown mesenteric mass. *Cureus*. 2021 Jan 7;13(1):e12546. doi:10.7759/cureus.12546. PMID:33564540.

**Sigley K**, Franklin M, **Welch S**. Appendiceal goblet cell adenocarcinoma case report and review of the literature. *Cureus*. 2021 Feb 23;13(2):e13511. doi:10.7759/cureus.13511. PMID:33786220.

**Sigley K**, **Hope P**, **Laird R**. Subcutaneous infiltration of indocyanine green from a malpositioned intravenous catheter. *Cureus*. 2021 Jul 13;13(7):e16378. doi:10.7759/cureus.16378. PMID:34408933.

**Smith J**, **Parmely JD**. Ventral hernia. 2021 Aug 11. Treasure Island, FL. StatPearls Publishing. PMID: 29763102.

**Somerset A**, Edelman DA, **Webber J**. Signet-ring cell colon cancer in a teenager: A case report. *Cureus*. 2021 Jan 11;13(1):e12632. doi:10.7759/cureus.12632. PMID:33585120.

**Summe KL**, **Hawasli A**. Can lower preoperative 48-hour pH score predict reflux resolution after sleeve gastrectomy. *Am J Surg*. 2021 Mar;221(3):578-580. doi:10.1016.

**Tom A**, Powers JM, Chaiyasate K. Safe and efficient removal of massive head and neck vascular malformations using vessel sealing energy devices. *J Craniofac Surg*. 2021 Jul-Aug 01;32(5):e457-e459. doi:10.1097/SCS.0000000000007295. PMID:33273200.

**Tom AR**, **Boudiab E**, Issa C, Huynh K, Lu S, Powers JM, Chaiyasate K. Single center retrospective analysis of cost and payments for lymphatic surgery. *Plast Reconstr Surg Glob Open*. 2021 Jun 16;9(6):e3630. doi:10.1097/GOX.0000000000003630. PMID:34150425.

Yu L, Halalau A, Dalal B, Abbas AE, **Ivascu F**, Amin M, et al. Machine learning methods to predict mechanical ventilation and mortality in patients with COVID-19. PLoS One. 2021 Apr 1;16(4): e0249285. doi:10.1371/journal.pone.0249285. PMID:33793600.

Zaikos TD, **Boudiab EM**, Peshel EC, Wu AA, Dyer E, Haut ER, Salimian KJ. Acute appendicitis severity during the early COVID-19 pandemic period. Trauma Surg Acute Care Open. 2021 Aug 26;6(1):e000809. doi:10.1136/tsaco-2021-000809. PMID:34466662.

### **Book Chapter or Full Book Publications:**

**Major MT, Bove PG, Long GW.** Complications of inferior vena cava filters. Vascular and endovascular complications: A practical approach. Boca Raton: CRC Press, 2021. p95-103.

### **Abstracts with Associated Research Publications:**

Chagpar A, Tsangaris T, Garcia-Cantu C, Howard-McNatt M, Chiba A, Berger A, et al, **[Brown EA]**. Are surgeons still doing sentinel node biopsies in older women? Ann Surg Oncol 2021 Feb;28(Suppl 1):S67. <https://link.springer.com/content/pdf/10.1245/s10434-021-09682-9.pdf>

Elassar H, **Reilly J, Lapkus M, Pastewski J**, Studzinski D, Sun F, et al, **[Czako PF, Nagar S]**. An institutional summary of incidence and risk of second primary cancer (SPC) after treatment for papillary thyroid carcinoma (PTC). J Am Coll Surgeons. 2021 Nov 1;233(5):e39.

Gill I, Imam Z, Orosey M, **Bedi DS**, Al Sibae MR, Jamil L. Bile leak from the Duct of Luschka following liver transplantation. Am J Gastroenterol. 2021;116:S1072-S1073. doi:10.14309/01.ajg.0000783708.30682.a2.

Grzywacz VP, **Lehrberg AV**, Quinn TJ, Dekhne NS, Dilworth JT. Outcomes of patients with prior breast augmentation treated with breast conserving therapy. Int J Rad Oncol Biol Physics 2021 Nov 1;111(3):e222.

Harvey R, Akay B, **Brahmamdham P**. Robotic spleen preserving distal pancreatectomy (Warshaw technique) in a 12-year-old female. Surg Endosc. 2021 Dec;35(Suppl 1):S334.

**Howard KK, Lapkus M, Luehmann N, Nagar S, Czako P.** Anaplastic thyroid cancer presenting with brain metastasis: 17-year progression free survival. J Endocri Soc. 2021 Apr-May;5(Suppl 1):A882–A883. <https://doi.org/10.1210/jendso/bvab048.1802>

Hu AJ, Reiter A, Gerardo R, Skertich NJ, Witte A, Kang HS, et al, **[Perry BP]**. Association of surgery delay related to SARS-CoV-2 with complications among pediatric patients with inguinal hernia. J Am Coll Surgeons. 2021 Nov 1;233(5):S174.

**Kumar M**, Long G, Studzinski D, Callahan R, Brown OW. Endovascular aortic aneurysm repair is associated with late decline of renal function compared with patients with peripheral arterial disease. J Vascular Surg 2021 Sep 1;74(3):e126-7.

**Kumar M**, Long GW, Studzinski DM, Callahan RE, Brown OW. Endovascular aortic aneurysm repair is associated with late decline of renal function as compared to patients with peripheral arterial disease. Midwestern Vascular Surgical Society 45h Annual Meeting, 2021 Sep 9-11, Chicago IL.

**Kumar M**, Long GW, Studzinski DM, Callahan RE, Brown OW. Endovascular aortic aneurysm repair is associated with late decline of renal function as compared to patients with peripheral arterial disease. The 67th Annual Meeting of the Michigan Chapter of the American College of Surgeons, 2021 May 12-14. Virtual.

**Kumar M, Osei SK**, Fatima A, Harvey RN, **Menning A**, Stallion A, et al. The evolving effectiveness of biologics in avoiding surgery in children with ulcerative colitis. The Annual Meeting of the American Pediatric Surgical Association, 2021 May 20-22. Virtual, and The 67th Annual Meeting of the Michigan Chapter American College of Surgeons, 2021 May 12-14. Virtual.

**Kumar M**, Rimar SD, Long GW, Studzinski D, Brown OW. Indications for a “Surgery First” approach for the treatment of lower extremity arterial disease. *J Vascular Surg* 2021 Oct 1;74(4):e375.

**Kumar M**, Osei SK, Fatima A, Harvey RN, **Menning A** Stallion A, Novotny N. The evolving effectiveness of biologics in avoiding surgery in children with ulcerative colitis.

**Lehrberg A**, Dekhne N, **Desai A, Kiran S**. Trends contributing to disparities in inflammatory breast cancer. *Ann Surg Oncol* 2021 28(S2), S290–292.

Sandhu HS, **Foote DC**, Evans J, Santosa KB, Kemp MT, Donkersloot JN, et al. Formative experiences in surgical residency: Shaped by critical incident narratives. The University of Michigan Health Professions Education Day, 2021 Apr 6. Virtual.

**Savin J, Sharma J, Piziali D, Robbins JM, Ghaith G**, Savin M. Jejunal diverticula, an unusual cause of upper gastrointestinal bleeding: Case report and literature review. *J Vasc Interv Radiol* 2021 May, 32(5):e14.

#### **Invited Research Presentations:**

**Angus A, Howard KK**, Jawanda H, **Ziegler KM**, Roach V. The effect of an attending vs neutral observer on peg transfer and intracorporal knot tying laparoscopic tasks. The Detroit Surgical Association Meeting, 2021 Sep. Virtual.

Arshad SA, Garcia EI, Avritscher E, **Kumar M**. Multicenter assessment of cryoanalgesia use in minimally invasive repair of pectus excavatum. American Pediatric Surgical Association. Annual Meeting, 2021 May 20-22. Scientific Session 4, 7 Jul 2021. Virtual.

**Boudiab E**, Lai S, Karabon P, Novotny N, Morden R, Akay B, et al. Penetrating diaphragm injuries in children and predictors of mortality: An analysis of the National Trauma Data Bank. The 7th Annual Meeting of the Pediatric Trauma Society, 2021 Nov 4-6, Baltimore, MD.

**Boudiab E, Lapkus M, Reilly J**, Studzinski DM, **Czako P, Asbahi M**, et al, [**Nagar S**]. Cervical endocrine surgery with a novel opioid-limited perioperative protocol. The 68th Annual Meeting of the Michigan Chapter of the American College of Surgeons, 2021 May 12-14. Virtual.

**Feber K**. Pediatric urology for pediatric providers. Pediatrics Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Jun 15.

**Foote DC**, Donkersloot J, Sandhu G, **Ziegler K**, Lau J. Identifying institutional factors in general surgery resident wellness and burnout. The Association of Women Surgeons Annual Conference, 2021 Oct 16-17. Virtual.

**Foote DC**, Matusko N, Reddy RM, Sandhu G. Factors influencing procedural entrustment: Differences among residents and medical students. The University of Michigan Health Professions Education Day, 2021 Apr 6. Virtual, and The Southeast Michigan Center for Medical Education (SEMCME) 43rd Annual Research Forum, 2021 May 26. Virtual.

**Foote DC**, Matusko N, Reddy RM, Sandhu G. Factors influencing medical student entrustment with supervised procedures during core clerkships. The 16th Annual Academic Surgical Congress, 2021

Feb 2-4. Virtual, and The University of Michigan Health Professions Education Day, 2021 Apr 6. Virtual.

**Foote DC**, Matusko N, Reddy RM, Sandhu G. Factors influencing procedural entrustment: Differences among residents and medical students. The 49th Annual Beaumont Resident and Fellow Research Forum, 2021 May. Virtual, and The Association for Surgical Education ASE 2021 Annual Meeting, 2021 Apr 30-May 1. Virtual.

**Foote DC**, Roach VA. Developing a 2-week surgery bootcamp: A needs assessment of aspiring general surgeons. The 10th Annual Oakland University William Beaumont School of Medicine Davidson Medical Education Week, 2021 May 17-21. Virtual, and The Association for Surgical Education Annual Meeting, 2021 Apr 29-May 1. Virtual.

**Foote DC**, Sandhu G, **Ziegler K**, Lau J. Identifying institutional factors in general surgery resident wellness and burnout. The Association for Surgical Education ASE 2021 Annual Meeting, 2021 Apr 30-May 1. Virtual, and The University of Michigan Health Professions Education Day, 2021 Apr 6. Virtual.

**Foote DC**, Sandhu G, **Ziegler K**, Lau J. Institutional factors in general surgery resident wellness and burnout: Identification via a modified delphi technique. The Association for Medical Education in Europe Annual Conference, 2021 Aug 27-30. Virtual.

<https://amee.org/getattachment/Conferences/AMEE-2021/Programme/AMEE-2021-Abstract-Book-V2-8-Post-Conference.pdf>

Harvey R, Akay B, Studzinski D, **Brahmamdham P**. Physician directed vs. self-directed activity restrictions in children after routine pediatric surgery: A prospective study. The 67th Annual Meeting of the Michigan Chapter American College of Surgeons, 2021 May 12-14. Virtual.

Harvey R, Akay B, **Brahmamdham P**. Robotic spleen preserving distal pancreatectomy (Warshaw technique) in a 12-year-old female. The American College of Surgeons Clinical Congress, 2021 Oct 23-27. Virtual.

Hill A, Wasvary H, **Ziegler M**. Association between preoperative HbA1C and surgical site infection in colorectal surgery. The Michigan Society of Colon and Rectal Surgeons Annual Meeting, 2021 Oct, Detroit, MI.

**Howard KK**, **Masters SE**. From the middle of nowhere to the knife: A history of transportation for rural surgery from the industrial revolution to today. The American College of Surgeons Clinical Congress, 2021 Oct 23-27. Virtual.

**Iacco A**. Robotic complex groin surgery. The Abdominal Core Health Quality Collaborative (ACHQC) Quality Improvement Summit: Data Driven Insights for Optimizing Outcomes, 2021 Mar 20-21. Virtual. <https://www.youtube.com/watch?v=6Vilcizy8rk>

Kalthoff R, **Boudiab E**, Studzinski D, Novotny N, **Brahmamdham P**, Akay B. Clearance of the cervical spine in obtunded pediatric blunt trauma patients: Quality assessment of an existing clearance pathway. The 7th Annual Meeting of the Pediatric Trauma Society, 2021 Nov 4-6, Baltimore, MD, and The American College of Surgeons Quality and Safety Conference, 2021 Jul 12-16. Virtual.

Kopel L, Roby K, Karabon P, Akay B, **Brahmamdham P**. Perioperative antibiotic use in neonatal surgery. The 6th Annual Robert J. Lucas Surgical Society Research Symposium, 2021 Mar 9. Virtual.

Kopel L, Volin J, **Iacco A**, Akay B, **Brahmamdram P**. Robotic gastrotomy and bezoar removal in a six-year old. The International Pediatric Endosurgery Group Annual Meeting, 2021 Jun 11 and 14. Virtual.

**Krause K**. Metabolic and bariatric surgery update. Medical Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. Sept 15, 2021.

**Kumar M**, Harvey RN, Fatima A, **Osei SK**, **Menning A**, Stallion A, et al. Nutritional impact of medical management and surgery in responsive and refractory ulcerative colitis. The American College of Surgeons Clinical Congress, 2021 Oct 23-27, 2021. Virtual.

**Kumar M**, Long GW, Studzinski DM, Callahan RE, Brown OW. Endovascular aortic aneurysm repair is associated with late decline of renal function as compared to patients with peripheral arterial disease. Midwestern Vascular Surgical Society 45th Annual Meeting, 2021 Sep 9-11, Chicago IL, and The 67th Annual Meeting of the Michigan Chapter of the American College of Surgeons, 2021 May 12-14. Virtual.

**Kumar M**, Peters M, Karabon P, Welsh R, **Brahmamdram P**. Clostridium difficile infection after appendectomy: An analysis of the NSQIP database. American College of Surgeons Clinical Conference, 2021 Oct 23-27 and American College of Surgeons Michigan Chapter Annual Meeting, 2021 May 12-14 and American College of Surgeons Quality and Safety Conference, 2021 Jul 12-16. Virtual.

**Kumar M**, Rimar SD, Long GW, Studzinski DM, Brown OW. Indications for a "surgery first" approach for the treatment of lower extremity arterial disease. The Midwestern Vascular Surgical Society 45th Annual Meeting. 2021 Sep 9-11, Chicago, IL. <https://www.midwestvascular.org/annual-meeting/>

Lai S, Karabon P, **Brahmamdram P**. Traumatic diaphragm rupture in children. Poster presentation. 6th Annual Robert J Lucas Surgical Society Research Symposium. 2021 Mar. Rochester, MI. Virtual.

Lai S, Karabon P, Morden R, Akay B, Novotny N, Stallion A, et al, [**Brahmamdram P**]. Blunt trauma and diaphragm injury in children: An analysis of the National Trauma Data Bank. The 7th Annual Meeting of the Pediatric Trauma Society, 2021 Nov 4-6, Baltimore, MD.

**Lapkus M**, **Reilly J**, **Pastewski J**, Sun F, Elassar H, Faidmoayer E, et al, [**Czako P**, **Nagar S**]. Comparing recurrence and mortality for multicentric and solitary papillary thyroid carcinoma. The 67th Annual Meeting of the Michigan Chapter of the American College of Surgeons, 2021 May 12-14. Virtual, and The 78th Annual Meeting of the Central Surgical Association and Midwest Surgical Association Combined Meeting, 2021 Jul 25-27. Virtual. <https://centralsurg.org/meeting/program/2021/MO14.cgi>

**Menning AZ**, **Al-Hadidi A**, Studzinski DM, Callahan R, **Mangla J**, Shellnut J, et al. Effect of preoperative narcotic use and enhanced recovery protocols on length of stay in patients undergoing elective laparoscopic segmental colectomy: Analysis of the NSQIP dataset. The Michigan Society of Colon and Rectal Surgeons Annual Meeting, 2021 Oct, Detroit, MI.

**Osei SK**, Williams A, Karabon P, Studzinski D, Akay B, **Brahmamdram P**. Perioperative antibiotic use in neonatal general surgery: A survey of APSA membership. The 67th Annual Meeting of the Michigan Chapter American College of Surgeons, 2021 May 12-14. Virtual, and Detroit Surgical Association, 2021 Sept. Virtual.



**Reilly J, Faridmoayer E, Lapkus M, Pastewski J, Sun F, Elassar H, et al, [Czako P, Nagar S].** Vascular invasion in papillary thyroid cancer: Patient outcomes. The 49th Annual Beaumont Resident and Fellow Research Forum, 2021 May. Virtual.

**Reilly J, Faridmoayer E, Lapkus M, Pastewski J, Sun F, Elassar H, et al, [Czako P, Nagar S].** Vascular invasion predicts advanced tumor characteristics in papillary thyroid carcinoma. The 68th Annual Meeting of the Michigan Chapter of the American College of Surgeons, 2021 May 12-14 Virtual, and The 78th Annual Meeting of the Central Surgical Association and the Midwest Surgical Association Combined Meeting, 2021 Jul 25-27 Virtual, and <https://centralsurg.org/meeting/program/2021/36.cgi> and The Detroit Surgical Association Meeting, 2021 Mar. Virtual.

Williams A, **Osei SK, Brahmamdam P**, Akay B, Studzinski D. Perioperative antibiotic use in neonatal general surgery: A survey of APSA membership. The American Academy of Pediatrics National Conference and Exhibition. 2021 Oct 8-11. Virtual.

# NEUROSURGERY

## Peer Reviewed Articles:

Andring L, Squires B, Seymour Z, **Fahim D**, Jacob J, Ye H, Marvin K, Grills I. Radionecrosis (RN) in patients with brain metastases treated with stereotactic radiosurgery (SRS) and immunotherapy. *Int J Neurosci*. 2021 Apr 19;1-8. doi:10.1080/00207454.2021.1900843. PMID:33685315.

Bao J, Khazen O, Olmsted ZT, Gechtman G, Shao MM, DiMarzio M, et al, **[Staudt MD]**. Treatment strategies for generator pocket pain. *Pain Med*. 2021 Jun 4;22(6):1305-1311. doi:10.1093/pm/pnab007. PMID:33502508.

Bridger C, Prabhala T, Dawson R, Khazen O, MacDonell J, DiMarzio M, et al, **[Staudt MD]**. Neuromodulation for chronic pelvic pain: A single-institution experience with a collaborative team. *Neurosurgery*. 2021 Mar 15;88(4):819-827. doi:10.1093/neuros/nyaa537. PMID:33372201.

Campwala Z, Szewczyk B, Maietta T, Trowbridge R, Tarasek M, Bhushan C, et al, **[Staudt MD]**. Predicting ablation zones with multislice volumetric 2-D magnetic resonance thermal imaging. *Int J Hyperthermia*. 2021;38(1):907-915. doi:10.1080/02656736.2021.1936215. PMID:34148489.

Chalil A, **Staudt MD**, Harland TA, Leimer EM, Bhullar R, Argoff CE. A safety review of approved intrathecal analgesics for chronic pain management. *Expert Opin Drug Saf*. 2021 Apr;20(4):439-451. doi:10.1080/14740338.2021.1889513. PMID:33583318.

Chalil A, Wang Q, Abbass M, Santyr BG, MacDougall KW, **Staudt MD**. Dorsal root entry zone lesioning for brachial plexus avulsion injuries: Case series and literature review. *Front Pain Res (Lausanne)*. 2021 Nov 17;2: 749801. doi:10.3389/fpain.2021.749801. PMID:35295454.

Conway RM, Tu NC, Sioshansi PC, Porps SL, Schutt CA, Hong RS, et al, **[Jacob JT]**. Early outcomes of simultaneous translabyrinthine resection and cochlear implantation. *Laryngoscope*. 2021 Jul;131(7):e2312-e2317. doi:10.1002/lary.29436. PMID:33851722.

Dakson A, Kameda-Smith M, **Staudt MD**, Lavergne P, Makarenko S, Eagles ME, et al. A nationwide prospective multicenter study of external ventricular drainage: Accuracy, safety, and related complications. *J Neurosurg*. 2021 Nov 26;1-9. doi:10.3171/2021.7.JNS21421. PMID:34826821.

DiMarzio M, Madhavan R, Hancu I, Fiveland E, Prusik J, Joel S, et al, **[Staudt MD]**. Use of functional MRI to assess effects of deep brain stimulation frequency changes on brain activation in Parkinson disease. *Neurosurgery*. 2021 Jan 13;88(2):356-365. doi:10.1093/neuros/nyaa397. PMID:32985661.

Halalmeh DR, **Perez-Cruet MJ**. Use of local morselized bone autograft in minimally invasive transforaminal lumbar interbody fusion: Cost analysis. *World Neurosurg*. 2021 Feb;146:e544-e554. doi:10.1016.

Hamilton T, Macki M, Oh SY, Bazydlo M, Schultz L, Zakaria HM, et al, **[Khalil JG, Perez-Cruet M, Easton R]**. The association of patient education level with outcomes after elective lumbar surgery: A Michigan Spine Surgery Improvement Collaborative study. *J Neurosurg Spine*. 2021 Dec 10:1-9. doi:10.3171/2021.9.SPINE21421. PMID:34891131.

Hellman A, Maietta T, Clum A, Byraju K, Raviv N, **Staudt MD**, et al. Pilot study on the effects of low intensity focused ultrasound in a swine model of neuropathic pain. *J Neurosurg*. 2021 Apr 16:1-8. doi:10.3171.

- Hellman A, Maietta T, Clum A, Byraju K, Raviv N, **Staudt MD**, et al. Development of a common peroneal nerve injury model in domestic swine for the study of translational neuropathic pain treatments. *J Neurosurg*. 2021 Apr 16;1-8. doi:10.3171.
- Lim S, Yeh HH, Macki M, Mansour T, Schultz L, Telemi E, et al, [**Park P, Easton R, Khalil J, Perez-Cruet MJ**]. Preoperative HbA1c > 8% is associated with poor outcomes in lumbar spine surgery: A Michigan Spine Surgery Improvement Collaborative Study. *Neurosurgery*. 2021 Oct 13;89(5):819-826. doi:10.1093/neuros/nyab294. PMID:34352887.
- McKee C, **Perez-Cruet M**, Chaudhry GR. A Combinational approach using cell therapy, tissue engineering, and distracting device for the treatment of degenerative disc disease. *J Stem Cell Res Dev Ther*. 2021 7: 064. doi:10.24966/SRDT-2060/100064.
- Newell C, Chalil A, Langdon KD, Karapetyan V, Hebb MO, Siddiqi F, et al, [**Staudt MD**]. Cranial nerve and intramedullary spinal malignant peripheral nerve sheath tumor associated with neurofibromatosis-1. *Surg Neurol Int*. 2021 Dec 30;12: 630. doi:10.25259/SNI\_595\_2021. PMID:35350820.
- Rapp A, Sun M, Weissman H, **Perez-Cruet MJ, Fahim DK**. Pre-operative patient education does not necessarily reduce length of stay or pain after spinal surgery. *Interdiscip Neurosurg*. 2021 Jun;24:101044. doi:10.1016.
- Scholl AR, Nasr L, **Serrano CA**, Castellani RJ. Chordoid glioma with dot-like immunoreactivity for synaptophysin. *Cureus*. 2021 Feb 24;13(2):e13537. doi:10.7759/cureus.13537. PMID:33786244.
- Setty P**, Fernandez-Miranda JC, Wang EW, Snyderman CH, Gardner PA. In reply: Residual and recurrent disease following endoscopic endonasal approach as a reflection of anatomic limitation for the resection of midline anterior skull base meningiomas. *Oper Neurosurg (Hagerstown)*. 2021 Nov 15;21(6):e585. doi:10.1093/ons/opab366. PMID:34634118.
- Setty P**, Fernandez-Miranda JC, Wang EW, Snyderman CH, Gardner PA. Residual and recurrent disease following endoscopic endonasal approach as a reflection of anatomic limitation for the resection of midline anterior skull base meningiomas. *Oper Neurosurg (Hagerstown)*. 2021 Sep 15;21(4):207-216. doi:10.1093/ons/opab244. PMID:34245152.
- Spillinger A, Allen M, Karabon P, Hojjat H, Shenouda K, Hussein IH, et al, [**Jacob JT**]. Cost-effectiveness of routine type and screens in select endonasal skull base surgeries. *J Neurol Surg B Skull Base*. 2021 May 31;83(Suppl 2):e449-e458. doi:10.1055/s-0041-1730896. PMID:35832951.
- Staudt MD**, Harland TA, Pilitsis JG. Implantable neuromodulation for chronic pain & headache. *Pract Neurol*. 2021;20(4):47-58.
- Staudt MD**, Pouratian N, Miller JP, Hamani C, Raviv N, McKhann GM, et al. Congress of Neurological Surgeons systematic review and evidence-based guidelines for deep brain stimulations for obsessive-compulsive disorder: Update of the 2014 guidelines. *Neurosurgery*. 2021 Mar 15;88(4):710-712. doi:10.1093/neuros/nyaa596. PMID:33559678.
- Sweeney JF, Chumbalkar V, **Staudt MD**, Entezami P, Qian J, Sukul VV. Anaplastic pilocytic astrocytoma of the cerebellum presenting with Conus Medullaris Drop metastasis. *Case Rep Clin Pathol*. 2021;8(1):10-16. <https://doi.org/10.5430/crcp.v8n1p10>

Vanood A, Sharrak A, Karabon P, **Fahim DK**. Industry-sponsored research payments in neurosurgery – Analysis of the Open Payments Database from 2014 to 2018. *Neurosurgery*. 2021 Feb 16;88(3):e250-e258. doi:10.1093/neuros/nyaa506. PMID:33517429.

### **Abstracts with Associated Research Presentations:**

Lee JS, Lee Jr KC, Bojrab D, Chen PY, **Jacob J**, Grills IS. Long-term quality of life and audiometric outcomes following noninvasive stereotactic radiosurgery for acoustic neuromas. *Int J Radiat Oncol Biol Phys* 2021 Nov 1;111(3):e560.

### **Invited Research Presentations:**

**Elfallal W**. Intracranial hemorrhages. Beaumont Health On Demand Series. 2021 Sept 17. Virtual.

**Fahim D**. Resident roles and responsibilities. Neurosurgery Grand Rounds, M&M, and Staff Conference Rounds lecture presentation. Beaumont Hospital, Royal Oak, MI. 2021 Jul 13.

**Fahim D**. Spinal cord tumors. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI. 2021 Feb 16.

**Fahim D**. Cranofacial pain and headache. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI. 2021.

**Fahim D**. Spine anatomy & surgical approaches. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI. 2021 Sep 14.

**Fahim D**. Modern minimally invasive management of spine tumors. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI. 2021 Jan 19.

**Jacob J**. General overview of skull base surgery. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI 2021 Mar 30.

**Jacob J**. Skull base overview pt. 2. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI. 2021 Oct 26.

**Michael, DB**. Advances in neurotrauma. Medical Grand Rounds Lecture Presentation. Beaumont Hospital, Royal Oak, MI. 2021 Nov 23.

**Perez-Cruet M**. Cervical approaches. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI 2021 Aug 24.

**Perez-Cruet M**. Complex spine conference. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI. 2021 Nov 16.

**Perez-Cruet M**. Minimally invasive treatment of lumbar stenosis. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI 2021 Feb 9.

**Perez-Cruet M**. Thoracic approaches in the spine. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI. 2021 Sep 28.

**Serrano C**. Deep and neglected: Laser ablation of the insula and operculum. Beaumont Pediatric Epilepsy: New and Novel Approaches to Care. 2021 Aug 14. Virtual.

**Serrano C**. Laser ablations in pediatric epilepsy. Pediatric Epilepsy: New and novel approaches to care. 2021 Aug 13, 2021. Virtual.

**Serrano C.** Pediatric epilepsy and neurosurgery. Beaumont Practical Pediatrics. 2021 Nov 13. Virtual.

**Setty P.** History and principles of skull base surgery. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI. 2021 Mar 9.

**Setty P.** Introduction to endoscopic skull base. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI. 2021 Oct 12.

**Staudt MD.** Carotid and intracranial stenosis. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI. 2021 Aug 31.

**Staudt MD.** Craniofacial pain and headache. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI. 2021 Jan 26, and Neurology Grand Rounds lecture presentation. Beaumont Hospital, Royal Oak, MI. 2021 Jun 24.

**Staudt MD.** Deep brain stimulation. DBS Program: Ascension Providence Rochester Hospital. 2021 Dec 8. Virtual.

**Staudt MD.** Deep brain stimulation: A treatment option for Parkinson's. Michigan Parkinson Foundation. 2021 Dec 7, Webinar.

**Staudt MD.** Neuromodulation in epilepsy. Pediatric Epilepsy: New and novel approaches to care. 2021 Aug 13. Virtual.

**Staudt, MD.** Review of a common nomenclature. Congress of Neurological Surgeons Annual Meeting. 2021 Oct 18, Austin, TX.

**Staudt, MD.** Vascular anatomy and stroke. Neurosurgery Grand Rounds, M&M, and Staff Conference lecture presentation. Beaumont Hospital, Royal Oak, MI 2021 Aug 17.

# OTOLARYNGOLOGY

## Peer Reviewed Articles:

Allen MA, Lucas JP, Chung M, Rayess HM, **Zuliani G**. Nasal analysis of classic animated movie villains versus hero counterparts. *Facial Plast Surg*. 2021 Jun;37(3):348-353. doi:10.1055/s-0040-1716885. PMID:32942313.

Allen M, Meraj TS, Oska S, Spillinger A, **Folbe AJ**, Cramer JD. Acute epiglottitis: Analysis of U.S. mortality trends from 1979 to 2017. *Am J Otolaryngol*. 2021 Mar-Apr;42(2):102882. doi:10.1016.

Allen M, Spillinger A, Arianpour K, Johnson J, Johnson AP, **Folbe AJ**, et al. Tracheal resection in the management of thyroid cancer: An evidence-based approach. *Laryngoscope*. 2021 Apr;131(4):932-946. doi:10.1002/lary.29112. PMID:32985692.

Anne S, Mims JW, Tunkel DE, Rosenfeld RM, Boisoeneau DS, Brenner MJ, et al, **[Folbe AJ]**. Clinical practice guideline: Opioid prescribing for analgesia after common otolaryngology operations. *Otolaryngol Head Neck Surg*. 2021 Apr;164(Suppl 2):S1-S42. doi:10.1177/0194599821996297. PMID:33822668.

Anne S, Mims JW, Tunkel DE, Rosenfeld RM, Boisoeneau DS, Brenner MJ, et al, **[Folbe AJ]**. Clinical practice guideline: Opioid prescribing for analgesia after commo otolaryngology operations executive summary. *Otolaryngol Head Neck Surg*. 2021 Apr;164(4):687-703. doi:10.1177/0194599821996303. PMID:33822678.

Barbat A, Oska S, Partiali B, **Folbe AJ**, Jacob J. Gender and ethnic diversity in diagnostic and interventional radiology trainees, 2014-2019: Has the recently introduced integrated interventional radiology program changed anything? *Acad Radiol*. 2021 Feb;28(2):292-293. doi:10.1016.

**Bojrab DI 2nd**, Fritz CG, Lin KF, **Schutt CA, Hong RS, Babu SC**, et al, **[Bojrab DI]**. Fundal fluid cap is associated with hearing preservation in the radiosurgical treatment of vestibular Schwannoma. *Otol Neurotol*. 2021 Jan;42(1):137-144. doi:10.1097/MAO.0000000000002837. PMID:33055496.

**Bojrab DI 2nd**, Fritz CG, Lin KF, **Schutt CA, Hong RS, Babu SC**, et al, **[Bojrab DI]**. A protective cap: Fundal fluid cap facilitates a reduction in inner ear radiation dose in the radiosurgical treatment of vestibular Schwannoma. *Otol Neurotol*. 2021 Feb 1;42(2):294-299. doi:10.1097/MAO.0000000000002856. PMID:33443360.

**Bojrab DI 2nd**, Fritz CG, Lin KF, **Schutt CA, Hong RS, Babu SC**, et al, **[Bojrab DI]**. Pre-existing vestibular symptoms are associated with acute vestibular symptoms after gamma knife therapy for vestibular Schwannoma. *Otol Neurotol*. 2021 Jul 1;42(6):912-917. doi:10.1097/MAO.0000000000003064. PMID:33591068.

Conway RM, Sugihara EM, Lee DM, Renker J, Sioshansi PC, **Babu SC**. Frequency-specific electrocochleography and traveling wave time as a clinical test for Menière's disease. *Otol Neurotol*. 2021 Feb 1;42(2):290-293. doi:10.1097/MAO.0000000000002927. PMID:33443359.

Conway RM, Tu NC, Sioshansi PC, Porps SL, **Schutt CA, Hong RS**, et al, **[Jacob JT, Babu SC]**. Early outcomes of simultaneous translabyrinthine resection and cochlear implantation. *Laryngoscope*. 2021 Jul;131(7):e2312-e2317. doi:10.1002/lary.29436. PMID:33851722.

Dekhou A, Jahshan A, Aoun M, **Folbe AJ**. The representation of women and ethnic minorities among integrated plastic surgery trainees: A persistent need for diversification. *J Natl Med Assoc*. 2021 Oct;113(5):576-579. doi:10.1016/j.jnma.2021.05.002. PMID:34112525.

Dekhou A, Oska N, Partiali B, Johnson J, Chung MT, **Folbe AJ**. E-cigarette burns and explosions: What are the patterns of oromaxillofacial injury? *J Oral Maxillofac Surg*. 2021 Aug;79(8):1723-1730. doi:10.1016/j.joms.2021.03.008. PMID:33974919.

Dekhou A, Rehman R, Parzen JS, Quinn TJ, Zhang PL, **Rontal M**, et al. Primary parotid tumor thrombosis: Immunohistologic features and awareness of metastatic potential. *Cureus*. 2021 Jul 4;13(7):e16174. doi:10.7759/cureus.16174. PMID:34367782.

Feinberg DL, Rosner MS, **Rosner AJ**. Validation of the Binocular Vision Dysfunction Questionnaire (BVDQ). *Otol Neurotol*. 2021 Jan;42(1):e66-e74. doi:10.1097/MAO.0000000000002874. PMID:33105328.

Grace ZT, Magdich AR, Barinsky GL, Chen T, Karim M, Benson B, et al, **[Folbe AJ]**. Assessing the academic influence of otolaryngologists on sinus and allergy research. *Int Forum Allergy Rhinol*. 2021 Feb 4. doi:10.1002/alr.22773. PMID:33539641.

Howard A, Babu S, **Haupt M, Thottam PJ**. Balloon eustachian tuboplasty in pediatric patients: Is it safe? *Laryngoscope*. 2021 Jul;131(7):1657-1662. doi:10.1002/lary.29241. PMID:33150972.

Johnson J, Misch E, Chung MT, Hotaling J, **Folbe AJ**, Svider PF, et al. Flipping the classroom: An evaluation of teaching and learning strategies in the operating room. *Ann Otol Rhinol Laryngol*. 2021 Aug 5:34894211036859. doi:10.1177/00034894211036859. PMID:34350805.

Johnson J, Stathakios J, Chung MT, Engel R, **Folbe AJ**. Factors important in the selection of a rhinology/skull base surgery fellow: A national survey of fellowship directors. *Am J Rhinol Allergy*. 2021 Mar;35(2):234-238. doi:10.1177/1945892420948778. PMID:32777928.

Lin KF, **Bojrab DI 2nd**, Fritz CG, **Schutt CA, Hong RS, Babu SC**. Hearing outcomes with a novel total ossicular replacement prosthesis. *Otol Neurotol*. 2021 Mar 1;42(3):447-454. doi:10.1097/MAO.0000000000002993. PMID:33555756.

Lin KF, **Bojrab DI 2nd**, Fritz CG, Vandieren A, **Babu SC**. Hearing outcomes after surgical manipulation of the membranous labyrinth during superior semicircular canal dehiscence plugging or posterior semicircular canal occlusion. *Otol Neurotol*. 2021 Jul 1;42(6):806-814. doi:10.1097/MAO.0000000000003100. PMID:33710144.

Oska S, Barbat A, Babadjouni A, **Folbe AJ**. Sex, racial, and ethnic diversity of dermatology trainees, 2014-2018. *Skinmed*. 2021 Aug 1;19(4):252-254. PMID:34526197.

Partiali B, Oska S, Barbat A, **Folbe AJ**. The representation of women and underrepresented minorities in emergency medicine: A look into resident diversity. *Am J Emerg Med*. 2021 Jun;44: 241-243. doi:10.1016.

Spillinger A, Allen M, Karabon P, Hojjat H, Shenouda K, Hussein IH, et al, **[Jacob JT, Folbe AJ]**. Cost-effectiveness of routine type and screens in select endonasal skull base surgeries. *J Neurol Surg B Skull Base*. 2021 May 31;83(Suppl 2):e449-e458. doi:10.1055/s-0041-1730896. PMID:35832951.

**Thottam PJ**, Gilliland T, Ettinger N, Baijal R, Mehta D. Outcomes using a postoperative protocol in pediatric single-stage laryngotracheal reconstruction. *Ann Otol Rhinol Laryngol*. 2021 Aug;130(8):861-867. doi:10.1177/0003489419830107. PMID:30767561.

**Abstracts with Associated Research Publications:**

Lee JS, Lee Jr KC, **Bojrab D**, Chen PY, Jacob J, Grills IS. Long-term quality of life and audiometric outcomes following noninvasive stereotactic radiosurgery for acoustic neuromas. *Int J Radiat Oncol Biol Phys* 2021 Nov 1;111(3):e560.



# PEDIATRIC SURGERY

## Peer Reviewed Articles:

Al-Hadidi A, Lapkus M, Karabon P, **Akay B**, Khandhar P. Respiratory modalities in preventing reintubation in a pediatric intensive care unit. *Glob Pediatr Health*. 2021 Jan 27, 8:2333794X21991531. doi:10.1177/2333794X21991531. PMID:33614852.

Field JP, Zuckerwise LC, DeMare AM, Zhao S, Lipscomb BE, Raees MA, et al. Identifying prenatal ultrasound predictors and the ideal neonatal management of closing gastroschisis: The key is prevention. *J Perinatol*. 2021 Dec;41(12):2789-2794. doi:10.1038/s41372-021-01006-9. PMID:33790403.

Gibbons AT, Hanke RE, Casar Berazaluce AM, Abdulhai S, Glenn IC, McNinch NL, et al, **[Novotny NM]**. Recurrence after laparoscopic high ligation in adolescents: A multicenter international retrospective study of ten hospitals. *J Pediatr Surg*. 2021 Jan;56(1):126-129. doi:10.1016.

**Novotny N, Brahmamdam P**, Sherer K, Tom A. Mortality from gastrointestinal congenital anomalies at 264 hospitals in 74 low-income, middle-income, and high-income countries: A multicentre, international, prospective cohort study. *Lancet*. 2021 Jul 24;398(10297):325-339. doi:10.1016/S0140-6736(21)00767-4. PMID:34270932.

Orelaru F, Karabon P, **Novotny N, Akay B, Brahmamdam P**. Impact of *Clostridium difficile* infection on pediatric appendicitis. *Pediatr Surg Int*. 2021 Jul;37(7):865-870. doi:10.1007/s00383-021-04893-3. PMID:33830299.

**Thottam PJ**, Gilliland T, Ettinger N, Baijal R, Mehta D. Outcomes using a postoperative protocol in pediatric single-stage laryngotracheal reconstruction. *Ann Otol Rhinol Laryngol*. 2021 Aug;130(8):861-867. doi:10.1177/0003489419830107. PMID:30767561.

## Abstracts with Associated Research Presentations:

Harvey R, **Akay B, Brahmamdam P**. Robotic spleen preserving distal pancreatectomy (Warshaw technique) in a 12-year-old female. *Surg Endosc*. 2021 Dec;35(S1):S334.

Jeong YS, Shah S, Akula S, **Novotny NM**, Menoch M. Shock index pediatric adjusted score vs pediatric trauma score in the emergency department: So many scores, so little time. *Acad Emerg Med*. 2021 May;28(S1):S338-339.

## Invited Research Presentations:

Alghoul H, Al Frajat F, Alser O, Rogers-Snyr A, Harmon C, **Novotny N**. Intraoperative uses of near-infrared fluorescence spectroscopy in pediatric surgery: A systematic review. Annual Meeting of the International Pediatric Endosurgery Group. 2021 Jun 11 & 14. Virtual.

Arshad SA, Garcia EI, Avritscher E, Aranda A, Camp L, DeUgarte DA, et al, **[Kumar M]**. Multicenter assessment of cryoanalgesia use in minimally invasive repair of pectus excavatum. American Pediatric Surgical Association. 2021 May 20-22. Scientific Session 4, 2021 Jul 7. Virtual.

Boudiab E, Lai S, Karabon P, **Novotny N, Morden R, Akay B**, et al, **[Stallion A, Brahmamdam P]**. Penetrating diaphragm injuries in children and predictors of mortality: An analysis of the National Trauma Data Bank. The 7th Annual Meeting of the Pediatric Trauma Society, 2021 Nov 4-6, Baltimore, MD.

Harvey R, **Akay B, Brahmamdam P**. Robotic spleen preserving distal pancreatectomy (Warshaw technique) in a 12-year-old female. The American College of Surgeons Clinical Congress, 2021 Oct 23-27. Virtual.

Harvey R, **Akay B**, Studzinski D, **Brahmamd P**. Physician directed vs. self-directed activity restrictions in children after routine pediatric surgery: A prospective study. The 67th Annual Meeting of the Michigan Chapter American College of Surgeons, 2021 May 12-14. Virtual.

Kalthoff R, Boudiab E, Studzinski D, **Novotny N, Brahmamd P, Akay B**. Clearance of the cervical spine in obtunded pediatric blunt trauma patients: Quality assessment of an existing clearance pathway. The 7th Annual Meeting of the Pediatric Trauma Society, 2021 Nov 4-6, Baltimore, MD and The American College of Surgeons Quality and Safety Conference, 2021 Jul 12-16. Virtual.

Kopel L, Roby K, Karabon P, **Akay B, Brahmamd P**. Perioperative antibiotic use in neonatal surgery. The 6th Annual Robert J. Lucas Surgical Society Research Symposium, 2021 Mar 9. Virtual.

Kopel L, Volin J, Iacco AN, **Akay B, Brahmamd P**. Robotic gastrotomy and bezoar removal in a six-year old. The International Pediatric Endosurgery Group Annual Meeting, 2021 Jun 11 and 14. Virtual.

Kumar M, Harvey RN, Fatima A, Osei SK, Menning A, **Stallion A, Novotny NM**. Nutritional impact of medical management and surgery in responsive and refractory ulcerative colitis. The American College of Surgeons Clinical Congress, 2021 Oct 23-27, 2021. Virtual.

Kumar M, Osei SK, Fatima A, Harvey RN, Menning A, **Stallion A**, et al, **[Novotny NM]**. The Evolving effectiveness of biologics in avoiding surgery in children with ulcerative colitis. The Annual Meeting of the American Pediatric Surgical Association, 2021 May 20-22. Virtual.

Kumar M, Peters M, Karabon P, Welsh R, **Brahmamd P**. Clostridium difficile infection after appendectomy: An analysis of the NSQIP database. American College of Surgeons Clinical Conference, 2021 Oct 23-27, and American College of Surgeons Michigan Chapter Annual Meeting, 2021 May 12-14, and American College of Surgeons Quality and Safety Conference, 2021 Jul 12-16. Virtual.

Lai S, Karabon P, **Morden R, Akay B, Novotny N, Stallion A**, et al, **[Brahmamd P]**. Blunt trauma and diaphragm injury in children: An analysis of the National Trauma Data Bank. The 7th Annual Meeting of the Pediatric Trauma Society, 2021 Nov 4-6, Baltimore, MD.

Menning A, Kumar M, Osei SK, Fatima A, Harvey RN, **Stallion A**, et al, **[Novotny N]**. The evolving effectiveness of biologics in avoiding surgery in children with ulcerative colitis. The 67th Annual Meeting of the Michigan Chapter American College of Surgeons, 2021 May 12-14. Virtual.

Osei S, Williams A, Karabon P, Studzinski D, **Akay B, Brahmamd P**. Perioperative antibiotic use in neonatal general surgery: A survey of APSA membership. The 67th Annual Meeting of the Michigan Chapter American College of Surgeons, 2021 May 12-14. Virtual.

Williams A, Osei SK, **Brahmamd P, Akay B**, Studzinski D. Perioperative antibiotic use in neonatal general surgery: A survey of APSA membership. The American Academy of Pediatrics National Conference and Exhibition. 2021 Oct 8-11. Virtual.

Zamora IJ, Ghani MOA, Evans LL, **Novotny NM**, Wilcox LJ, Lovvorn HN, et al. Esophageal magnamosis for the treatment of Type-b esophageal atresia in a child with prohibitive operative risk: A novel device and indication. The Annual Meeting of the International Pediatric Endosurgery Group, 2021 Jun 11 & 14. Virtual.

# PLASTIC SURGERY

## Peer Reviewed Articles:

Boudiab EM, Zaikos TD, Issa C, **Chaiyasate K, Lu SM**. Trends in craniofacial injuries associated with the introduction of electric scooter sharing services. *FACE*. 2021;2(1):89-93.

**DeSano J 2nd, Gardner P, Hart JW**, Samuel S, Williams K. Intra-neural lipoma of the digital nerve: A case report and literature review. *Cureus*. 2021 Feb 2;13(2):e13074. doi:10.7759/cureus.13074. PMID:33680616.

Gasteratos K, Alser O, Hart J, **Chaiyasate K**. Palliative reconstructive surgery for advanced maxillofacial osteosarcoma in the peak of COVID-19 pandemic: A matter of ethical decision-making. *Plast Reconstr Surg Glob Open*. 2021 Mar 29;9(3):e3545. doi:10.1097/GOX.0000000000003545. PMID:33907661.

Gasteratos K, Morsi-Yeroyannis A, Vlachopoulos NC, Spyropoulou GA, Del Corral G, **Chaiyasate K**. Microsurgical techniques in the treatment of breast cancer-related lymphedema: A systematic review of efficacy and patient outcomes. *Breast Cancer*. 2021 Sep;28(5):1002-1015. doi:10.1007/s12282-021-01274-5. PMID:34254232.

**Hart J, DeSano J, Hajjar R, Lumley C**. Total scrotal reconstruction following Fournier's gangrene with bilateral prelaminate superior medial thigh flaps. *BMJ Case Rep*. 2021 Apr 15;14(4):e240618. doi:10.1136.

**Hart J, Hajjar R**, Laveroni E. Hypothenar hammer syndrome and repair of ulnar artery aneurysm in a patient without history of trauma. *BMJ Case Rep*. 2021 May 20;14(5):e240729. doi:10.1136.

**Hart J, Lu S**, Gasteratos K, **Chaiyasate K**. An unoperated Crouzon family treated with monobloc distraction: Challenges and lessons. *Plast Reconstr Surg Glob Open*. 2021 Nov 2;9(11):e3869. doi:10.1097/GOX.0000000000003869. PMID:34745790.

Issa CJ, **Lu SM**, Boudiab EM, **DeSano J, Sachanandani NS, Powers JM**, et al, [**Chaiyasate K**]. Comparing plastic surgeon operative time for DIEP flap breast reconstruction: 2-stage more efficient than 1-stage? *Plast Reconstr Surg Glob Open*. 2021 Jun 7;9(6):e3608. doi:10.1097/GOX.0000000000003608. PMID:34104615.

Kehrer A, Heidekrueger PI, Lonic D, Taeger CD, Klein S, Lamby P, et al, [**Sachanadani NS**]. High-resolution ultrasound-guided perforator mapping and characterization by the microsurgeon in lower limb reconstruction. *J Reconstr Microsurg*. 2021 Jan;37(1):75-82. doi:10.1055/s-0040-1702162. PMID:32110822.

**Lu SM**, Waldman LE, Boudiab EM, Lopez CD, Bassiri-Tehrani B, DelMauro MA, et al. Incidence, impact, and management of incidentalomas on preoperative computed tomographic angiograms for breast cancer patients with and without genetic mutations. *Plast Reconstr Surg*. 2021 Jun 1;147(6):1259-1269. doi:10.1097/PRS.0000000000007941. PMID:33974589.

**Powers JM, Chaiyasate K**. Dr Ian Jackson and the influence of a global traveling plastic surgery fellowship on his career. *J Craniofac Surg*. 2021 May 1;32(Suppl 3):1197-1198. doi:10.1097/SCS.0000000000007587. PMID:33674502.

**Powers JM**, Reuter Muñoz KD, Parkerson J, Nigro LC, Blanchet NP. From salvage to prevention: A single-surgeon experience with acellular dermal matrix and infection in prepectoral breast reconstruction. *Plast Reconstr Surg*. 2021 Dec 1;148(6):1201-1208. doi:10.1097/PRS.00000000000008519. PMID:34644266.

**Powers JM, Sachanandani N, Chaiyasate K**. Transfacial exposures of the anterior skull base and cervical spine: Straightforward "line-of-sight" algorithm for selection of approach. *J Craniofac Surg*. 2021 May 1;32(Suppl 3):1269-1274. doi:10.1097/SCS.00000000000007332. PMID:33710058.

**Sachanandani NS, Powers JM**, Issa CJ, **Oliver LN, Chaiyasate K**. Craniofacial microsurgery: An integrated approach to management of cleft and craniofacial syndromes, surgical experience, and insights. *J Craniofac Surg*. 2021 May 1;32(Suppl 3):1215-1220. doi:10.1097/SCS.00000000000007342. PMID:33710046.

**Shaheen KW, Topf J, Chaiyasate K**. A few thoughts about Ian Thomas Jackson. *Plast Reconstr Surg*. 2021 May 1;147(5):1251-1252. doi:10.1097/PRS.00000000000007908. PMID:33890916.

Tom A, **Powers JM, Chaiyasate K**. Safe and efficient removal of massive head and neck vascular malformations using vessel sealing energy devices. *J Craniofac Surg*. 2021 Jul-Aug 01;32(5):e457-e459. doi:10.1097/SCS.00000000000007295. PMID:33273200.

Tom AR, Boudiab E, Issa C, Huynh K, **Lu S, Powers JM**, et al, [**Chaiyasate K**]. Single center retrospective analysis of cost and payments for lymphatic surgery. *Plast Reconstr Surg Glob Open*. 2021 Jun 16;9(6):e3630. doi:10.1097/GOX.00000000000003630. PMID:34150425.

#### **Invited Research Presentations:**

**Bates J**. Hypochlorous acid: Defining the capsular contracture rate. Michigan Academy of Plastic Surgeons Biennial Scientific Meeting, Mackinac Island, MI: 2021 Jul 18-21.

Boudiab E, McNary C, Berkach C, **Powers JM, Sachanandani NS, Chaiyasete K**. From presentation to decannulation: Comprehensive treatment and reconstructive algorithm for functional restoration after ballistic injury to the face. Plastic Surgery: The Meeting, 2021 Oct 29-Nov 1, Atlanta, GA. <https://asps.confex.com/asps/2021am/meetingapp.cgi/Paper/49224>

Boudiab E, McNary C, Berkach C, Vega D, **Chaiyasete K, Powers JM**. Outcomes and complications of pedicled latissimus flap breast reconstruction. The Michigan Academy of Plastic Surgeons 31st Biennial Meeting, 2021 Jul 18-21, Mackinac Island, MI.

# THORACIC SURGERY

## Peer Reviewed Articles:

Al Natour RH, He C, Clark MJ, **Welsh R**, Chang AC, Adams KN. The influence of tobacco load versus smoking status on outcomes following lobectomy for lung cancer in a statewide quality collaborative. *J Thorac Cardiovasc Surg.* 2021 Nov;162(5):1375-1385.e1. doi:10.1016.

Clark JM, Kozower BD, Kosinski AS, Chang A, Broderick SR, David EA, et al, **[Welsh RJ]**. Variability in smoking status for lobectomy among Society of Thoracic Surgeons database participants. *Ann Thorac Surg.* 2021 Jun;111(6):1842-1848. doi:10.1016.

## Invited Research Presentation:

Kumar M, Peters M, Karabon P, **Welsh R**, Brahmamdam P. Clostridium difficile infection after appendectomy: An analysis of the NSQIP database. American College of Surgeons Clinical Conference, 2021 Oct 23-27. Virtual, and American College of Surgeons Michigan Chapter Annual Meeting, 2021 May 12-14. Virtual, and American College of Surgeons Quality and Safety Conference, 2021 Jul 12-16. Virtual.

# VASCULAR SURGERY

## Peer Reviewed Articles:

Boulom V, Hasanadka R, Ochoa L, **Brown OW**, McDevitt D, Singh TM. Importance of diversity, equity, and inclusion in the community practice setting. J Vasc Surg. 2021 Aug;74(2S):118S-124S. doi:10.1016/j.jvs.2021.03.051. PMID:34303451.

Hart J, Hajjar R, **Laveroni E**. Hypothenar hammer syndrome and repair of ulnar artery aneurysm in a patient without history of trauma. BMJ Case Rep. 2021 May 20;14(5):e240729. doi:10.1136.

## Book Chapters or Full Book Publications:

Major MT, **Bove PG**, **Long GW**. Complications of inferior vena cava filters. Vascular and endovascular complications: A practical approach. Boca Raton: CRC Press, 2021. p95-103.

## Abstracts with Associated Research Publications:

Kumar M, **Long G**, Studzinski D, Callahan R, **Brown OW**. Endovascular aortic aneurysm repair is associated with late decline of renal function compared with patients with peripheral arterial disease. Journal of Vascular Surgery. 2021 Sep 1;74(3):e126-7.

Kumar M, Rimar SD, **Long GW**, Studzinski D, **Brown OW**. Indications for a "surgery first" approach for the treatment of lower extremity arterial disease. J Vasc Surg 2021 Oct 1;74(4):e375.

## Invited Research Presentations:

Kumar M, **Long GW**, Studzinski DM, Callahan RE, **Brown OW**. Endovascular aortic aneurysm repair is associated with late decline of renal function as compared to patients with peripheral arterial disease. Midwestern Vascular Surgical Society 45th Annual Meeting, 2021 Sep 9-11, Chicago IL, and The 67th Annual Meeting of the Michigan Chapter of the American College of Surgeons, 2021 May 12-14. Virtual.

Kumar M, Rimar SD, **Long GW**, Studzinski DM, **Brown OW**. Indications for a "surgery first" approach for the treatment of lower extremity arterial disease. The Midwestern Vascular Surgical Society 45th Annual Meeting. 2021 Sep 9-11, Chicago, IL. <https://www.midwestvascular.org/annual-meeting/>

# UROLOGY

## Peer- Reviewed Articles:

Armas-Phan M, Keihani S, Agochukwu-Mmonu N, Cohen AJ, Rogers DM, Wang SS, et al, **[Burks FN]**. Clinical and radiographic factors associated with failed renal angioembolization: Results from the multi-institutional genitourinary trauma study (mi-guts). *Urology*. 2021 Feb;148: 287-291. doi:10.1016.

Auffenberg GB, Qi J, Dunn RL, Linsell S, Kim T, Miller DC, et al, **[Johnston WK 3<sup>rd</sup>]**. Evaluation of patient- and surgeon-specific variations in patient-reported urinary outcomes 3 months after radical prostatectomy from a statewide improvement collaborative. *JAMA Surg*. 2021 Mar 1;156(3):e206359. doi:10.1001.

**Bartolone SN**, Sharma P, **Chancellor MB**, **Lamb LE**. Urinary incontinence and Alzheimer's disease: Insights from patients and preclinical models. *Front Aging Neurosci*. 2021 Dec 17;13: 777819. doi:10.3389/fnagi.2021.777819. PMID:34975457.

Baunoch D, Luke N, Wang D, **Vollstedt A**, Zhao X, Ko DSC, et al, **[Sirls LT]**. Concordance between antibiotic resistance genes and susceptibility in symptomatic urinary tract infections. *Infect Drug Resist*. 2021 Aug 19;14:3275-3286. doi:10.2147/IDR.S323095. PMID:34447256.

**Chancellor MB**. Editorial comment from Dr. Chancellor to decreased urothelial cytoskeleton and cell proliferation protein expression suggest interstitial cystitis/bladder pain syndrome patients with Hunner's lesion and grade 3 glomerulation might be different from other types of patients. *Int J Urol*. 2021 Aug;28(8):832-833. doi:10.1111/iju.14629. PMID:34169577.

**Chancellor MB**, **Lamb LE**. Toward a validated diagnostic test with machine learning algorithm for interstitial cystitis. *Urol Sci*. 2021;32(1):2-7. doi:10.4103/uros.uros\_155\_20.

**Chancellor MB**, Smith CP. Use of botulinum toxin in the genitourinary system. *Handb Exp Pharmacol*. 2021;263:171-184. doi:10.1007/164\_2019\_308. PMID:32562059.

Colvin R, Walker D, **Hafron JM**, **Seifman B**, Nandalur S, **Gangwish D**, et al. Which measurement method should be used for prostate volume for pi-rads? A comparison of ellipsoid and segmentation methods. *Clin Imaging*. 2021 Dec;80: 454-458. doi:10.1016/j.clinimag.2021.09.003. PMID:34562834.

Crawford ED, **Hafron JM**, Tagawa ST, Twardowski PW, Harris RG, Moul JW, et al. Impact of late dosing on testosterone suppression with 2 different leuprolide acetate formulations: In situ gel and microsphere. An analysis of United States clinical data. *J Urol*. 2021 Feb;205(2):554-560. doi:10.1097/JU.0000000000001392. PMID:33090917.

Elterman D, Li W, Hatiboglu G, **Relle J**, Zorn KC, Bhojani N, Chin J. Relief of lower urinary tract symptoms after MRI-guided transurethral ultrasound ablation for localized prostate cancer: Subgroup analyses in patients with concurrent cancer and benign prostatic hyperplasia. *J Endourol*. 2021 Apr;35(4):497-505. doi:10.1089.

Erol B, Danacioglu YO, **Peters KM**. Current advances in neuromodulation techniques in urology practices: A review of literature. *Turk J Urol*. 2021 Sep;47(5):375-385. doi:10.5152/tud.2021.21152. PMID:35118977.

Evans R, Kohan A, Moldwin R, Radecki D, Geib T, **Peters KM**. Safety, tolerability, and efficacy of LiRIS 400 mg in women with interstitial cystitis/bladder pain syndrome with or without hunner lesions. *Neurourol Urodyn*. 2021 Sep;40(7):1730-1739. doi:10.1002/nau.24702. PMID:34288094.

**Gilleran J, \*Diokno AC, Ward E, Sirls L, Hasenau D, Giordano J, et al, [Shea E, Bartolone SN, Lamb LE, Chancellor MB].** Improved global response outcome after intradetrusor injection of adult muscle-derived cells for the treatment of underactive bladder. *Int Urol Nephrol.* 2021 Jul;53(7):1331-1338. doi:10.1007/s11255-021-02847-1. PMID:33840007.

Ginsburg KB, Johnson K, Moldovan T, Peabody H, Qi J, et, al, **[Kaul S]**. A statewide quality improvement collaborative's adherence to the 2017 American Urological Association Guidelines regarding initial evaluation of patients with clinical t1 renal masses. *Urol.* 2021 Dec;158:117-124. doi:10.1016/j.urology.2021.08.036. PMID:34499969.

Goldstein I, Komisaruk BR, Pukall CF, Kim NN, Goldstein AT, Goldstein SW, et, al, **[Peters KM]**. International Society for the Study of Women's Sexual Health (ISSWSH) review of epidemiology and pathophysiology, and a consensus nomenclature and process of care for the management of persistent genital arousal disorder/genito-pelvic dysesthesia (PGAD/GPD). *J Sex Med.* 2021 Apr;18(4):665-697. doi:10.1016/j.jsxm.2021.01.172. PMID:33612417.

**Han E, Killinger KA, Turner KM, Gilleran J, Tenney D, Peters KM.** Small fiber polyneuropathy in Hunner lesion and non-Hunner lesion interstitial cystitis/bladder pain syndrome. *Female Pelvic Med Reconstr Surg.* 2021 Jan 1;27(1):e91-e95. doi:10.1097/SPV.0000000000000824. PMID:32217920.

Heiner SM, Keihani S, McCormick BJ, Fang E, Hagedorn JC, Voelzke B, et, al, **[Burks FN]**. Nephrectomy after high-grade renal trauma is associated with higher mortality: Results from the Multi-Institutional Genitourinary Trauma Study (MIGUTS). *Urology.* 2021 Aug 23:S0090-4295(21)00777-9. doi:10.1016/j.urology.2021.07.033. PMID:34437895.

Hiller SC, Qi J, Leavitt D, **Frontera JR, Jafri SM,** Hollingsworth JM, et al. Ureterscopy in patients taking anticoagulant or antiplatelet therapy: Practice patterns and outcomes in a surgical collaborative. *J Urol.* 2021 Mar;205(3):833-840. doi:10.1097/JU.0000000000001416. PMID:33035142.

Hoang Roberts L, **Vollstedt A,** Volin J, McCartney T, **Peters KM.** Initial experience using a novel nerve stimulator for the management of pudendal neuralgia. *Neurourol Urodyn.* 2021 Aug;40(6):1670-1677. doi:10.1002/nau.24735. PMID:34196055.

Hu J, Bartels CM, Rovin RA, **Lamb LE,** Kind AJH, Nerenz DR. Race, ethnicity, neighborhood characteristics, and in-hospital Coronavirus disease-2019 mortality. *Med Care.* 2021 Oct 1;59(10):888-892. doi:10.1097/MLR.0000000000001624. PMID:34334737.

Johnson K, Lane BR, Weizer AZ, Herrel LA, Rogers CG, Qi J, Johnson AM, et al, **[Seifman BD]**. A statewide quality improvement collaborative. *Urol Oncol.* 2021 Apr;39(4): 239.e9-239.e16. doi:10.1016/j.urolonc.2021.01.001. PMID:33485765.

**Khandwala S,** Cruff J. Prospective analysis of transvaginal mesh hysteropexy in the treatment of uterine prolapse. *Int Urogynecol J.* 2021 Aug;32(8):2241-2247. doi:10.1007/s00192-020-04590-0. PMID:33175230.

\*Killinger KA, Henrichsen JL, Han E, Dai YL, Nguyen L, **Gilleran J, et al, [Odabachian L, Peters KM, Sirls LT]**. Symptom and quality of life improvements after pelvic floor physical therapy in a clinical population of women with pelvic pain and other symptoms. *Female Pelvic Med Reconstr Surg.* 2021 Jan 1;27(1):e18-e21. doi:10.1097/SPV.0000000000000783. PMID:31697265.



Klotz L, Pavlovich CP, Chin J, Hatiboglu G, Koch M, Penson D, et al, **[Relle J]**. Magnetic resonance imaging-guided transurethral ultrasound ablation of prostate cancer. *J Urol*. 2021 Mar;205(3):769-779. doi:10.1097/JU.0000000000001362. PMID:33021440.

Komnenov D, Dhar N, **Lamb L**, Wills M, Khaliq F, Timar R, et al, **[Chancellor M, Bartolone S, Ward E]**. Urine cytokines as biomarkers in Covid-19 patients. *FASEB J*. 2021 May;35(Suppl 1):10.1096/fasebj.2021.35.S1.02018.

Lane GI, Gracely A, Uberoi P, Lee U, Smith AL, Anger JT, et al, **[Padmanabhan P]**. Changes in patient reported outcome measures after treatment for female urethral stricture. *Neurourol Urodyn*. 2021 Apr;40(4):986-993. doi:10.1002/nau.24653. PMID:33719145.

Luo J, Meulmeester FL, Martens LG, **Ashrafi N**, de Mutsert R, Mook-Kanamori DO, et al. Urinary oxidized, but not enzymatic vitamin E metabolites are inversely associated with measures of glucose homeostasis in middle-aged healthy individuals. *Clin Nutr*. 2021 Jun;40(6):4192-4200. doi:10.1016/j.clnu.2021.01.039. PMID:33593663.

**Meier K, Hiller S**, Dauw C, Hollingsworth J, Kim T, Qi J, et al, **[Jafri SMA]**. Understanding ureteral access sheath use within a statewide collaborative and its effect on surgical and clinical outcomes. *J Endourol*. 2021 Sep;35(9):1340-1347. doi:10.1089.

Morgan TN, Pace N, Mohapatra A, Ren D, Kunkel G, **Tennyson L**, et al. Sacral neuromodulation: Determining predictors of success. *Urology*. 2021 Jul;153:124-128. doi:10.1016.

Nair SM, Hatiboglu G, **Relle J**, Hetou K, **Hafron J**, et al. Magnetic resonance imaging-guided transurethral ultrasound ablation in patients with localised prostate cancer: 3-year outcomes of a prospective Phase I study. *BJU Int*. 2021 May;127(5):544-552. doi:10.1111/bju.15268. PMID:33037765.

Nandalur KR, **Colvin R**, Walker D, Nandalur SR, **Seifman B, Gangwish D**, et al, **[Hafron J]**. Benign prostate hyperplasia as a potential protective factor against prostate cancer: Insights from a magnetic resonance imaging study of compositional characteristics. *Prostate*. 2021 Oct;81(14):1097-1104. doi:10.1002/pros.24207. PMID:34375453.

Patel AK, Lane BR, Chintalapati P, Fouad L, Butaney M, Budzyn J, et al, **[Schervish E]**. Utilization of renal mass biopsy for T1 renal lesions across Michigan: Results from Music-Kidney, a statewide quality improvement collaborative. *Eur Urol Open Sci*. 2021 Jun 24;30:37-43. doi:10.1016/j.euros.2021.06.004. PMID:34337546.

Pezzella A, McCrery R, Lane F, Benson K, Taylor C, Padron O, et al, **[Peters K]**. Two-year outcomes of the Artisan-SNM study for the treatment of urinary urgency incontinence using the Axonics rechargeable sacral neuromodulation system. *Neurourol Urodyn*. 2021 Feb;40(2):714-721. doi:10.1002/nau.24615. PMID:33508155.

Quarles J, **Hafron J**. Understanding the millennial physician. *Urol Clin North Am*. 2021 May;48(2):195-202. doi:10.1016.

Rezaee ME, **Vollstedt AJ**, Yamany T, Monga M, Krambeck A, Shah O, et al. Stent duration and increased pain in the hours after ureteral stent removal. *Can J Urol*. 2021 Feb;28(1):10516-10521. PMID:33625341.

Shen YC, Tyagi P, Lee WC, **Chancellor M**, Chuang YC. Improved symptoms and urinary biomarkers in refractory interstitial cystitis/bladder pain syndrome patients randomized to extracorporeal shock

wave therapy versus placebo. *Sci Rep.* 2021 Apr 6;11(1):7558. doi:10.1038/s41598-021-87040-1. PMID:33824389.

Tundo G, **Vollstedt A**, Meeks W, Pais V. Beyond prevalence: Annual cumulative incidence of kidney stones in the United States. *J Urol.* 2021 Jun;205(6):1704-1709. doi:10.1097/JU.0000000000001629. PMID:33502240.

Van Neste L, Wojno KJ, Henao R, Mane S, **Korman H**, **Hafron J**, et al, [**Kernen K**]. Evaluation of an RNAseq-based immunogenomic liquid biopsy approach in early-stage prostate cancer. *Cells.* 2021 Sep 28;10(10):2567. doi:10.3390/cells10102567. PMID:34685549.

Vince RA Jr, Jiang R, Qi J, Tosoian JJ, Takele R, Feng FY, et al, [**Shetty S**]. Impact of decipher biopsy testing on clinical outcomes in localized prostate cancer in a prospective statewide collaborative. *Prostate Cancer Prostatic Dis.* 2021 Jul 20:10.1038/s41391-021-00428-y. doi:10.1038/s41391-021-00428-y.

**Vollstedt AJ**, **Han E**, Nguyen L, **Tennyson L**, Beck D, **Sirls L**. Placement of mid-urethral mesh slings at the time of vaginal prolapse repair does not affect post-operative sexual function or orgasm. *Int Urogynecol J.* 2021 Mar;32(3):639-645. doi:10.1007/s00192-020-04479-y. PMID:32780171.

Wang HJ, Tyagi P, Lin TK, Huang CC, Lee WC, **Chancellor MB**, et al. Low energy shock wave therapy attenuates mitochondrial dysfunction and improves bladder function in HCl induced cystitis in rats. *Biomed J.* 2021 Jul 2:S2319-4170(21)00072-X. doi:10.1016/j.bj.2021.06.006. PMID:34224911.

Whittmann D, Faris A, Montie JE, Chisholm S, Duby A, O'Dell D, et al, [**Johnston WK**]. Delayed urological cancer care during the Covid-19 pandemic: Urologists' experience. *Urol Pract.* 2021;8(3):367-372.

**Zwaans BMM**, Carabulea AL, **Bartolone SN**, **Ward EP**, **Chancellor MB**, **Lamb LE**. Voiding defects in acute radiation cystitis driven by urothelial barrier defect through loss of e-cadherin, zo-1 and uroplakin iii. *Sci Rep.* 2021 Sep 29;11(1):19277. doi:10.1038/s41598-021-98303-2. PMID:34588475.

### **Abstracts with Associated Research Presentations:**

**Chancellor MB**, Wills M, Timar R, **Bartolone SN**, Dhar N, Dhar S, et al, [**Lamb LE**]. MP29-15: Covid-19 associated cystitis (CAC): Increased urinary symptoms and biomarkers of inflammation in urine in patients with acute Covid-19. *J Urol.* 2021 Sept;206(3S):e496.

**Chancellor MB**, **Peters KM**, Benson KD, Thomas S, Bennett JB, Dmochowski RR, et al. An evaluation of women with persistent or recurrent stress urinary incontinence (SUI) following surgery in a double-blind, randomized, controlled trial comparing safety and efficacy of autologous muscle derived cells for urinary sphincter repair (AMDC-USR) with placebo (PBO). *J Urol.* 2021 Sep;206(3):e99-100.

Das S, **Burks F**, Christensen P, Costas J, Crawford K, Davies B, et al. Redirecting a global health surgical program to remote support during a pandemic: The IVU virtual visiting professorship program. *J Urol.* 2021 Sep;206(3S):e513.

DiBianco JM, Conrado B, Daignault-Newton S, **Korman H**, **Jafri SM**, Ghani KR, et al. Variation in imaging after stone treatment. *J Urol.* 2021 Sep;206(3S):e129-130.

DiBianco JM, Dupati A, Daignault-Newton S, Kachroo N, **Seifman B**, Pimentel H, et al. Stent omission in presented patients undergoing ureteroscopy decreased unplanned healthcare utilization. *J Urol.* 2021 Sep;206(3S):e924.

Dmochowski R, Goldman H, Lee U, Carr L, **Peters K**, Benson K, et al, **[Chancellor M]**. Safety, efficacy, and quality of life improvement in women with prior stress incontinence surgery treated with autologous muscle derived cells: Experience from two double-blind, randomized, placebo-controlled trials. *Neurourol Urodyn*. 2021 Jul 1;40, pp. S105-S106.

Gracely A, Lane GI, Uberoi P, Lee U, Smith A, Anger J, et al, **[Padmanabhan P]**. Changes in patient reported outcome measures after treatment of female urethral stricture. *Neurourol Urodyn*, 2021 Feb;40:S137–S138.

**Hoang Roberts L, Vollstedt A**, Volin J, McCartney T, **Peters K**. Stimwave for pudendal neuralgia. *J Urol*. 2021 Sep;206(3S):e600.

Kaufman MR, **Peters KM**, Chermansky CJ, Quiroz LH, Bennett JB, Thomas S, et al, **[Chancellor M]**. A Double-blind, randomized, controlled trial comparing safety and efficacy of autologous muscle derived cells for urinary sphincter repair (AMDC-USR) with placebo (PBO) in women with stress urinary incontinence (SUI). *J Urol*. 2021 Sep;206(3S):e99.

Khaliq F, Wills M, **Dhar N**, Bitar A, Dhar S, Komnenov D, et al, **[Chancellor M, Lucas S]**. Assessment of overactive bladder symptoms in deconditioned patients recovering from post-acute COVID-19 syndrome. *J Urol*. 2021 Sep;206(3S):e18-e19.

Klein E, Partin A, Lotan Y, Baniel J, Dineen M, **Hafron J**, et al. IsoPSA: Clinical performance of a single parameter, structure based test for high grade prostate cancer in a large, multicenter, prospective validation trial. *J Urol*. 2021;206(S3):e1041-e1042.

Klotz L, Pavlovich CP, Chin J, Hatiboglu G, Koch M, Penson D, et al, **[Relle J]**. Pivotal trial of MRI-guided transurethral ultrasound ablation in men with localized prostate cancer. *J Urol*. 2021 Sep;206(S3):e814.

Lowentritt B, Brown G, **Kernen K**, Pilon D, Ellis L, et al. Real-world effectiveness and treatment adherence of apalutamide in non-metastatic castration-resistant prostate cancer patients. *J Urol*. 2021 Sep;206(S3):e58.

**Meier K, Shah M**, Banooni A, Liss Z. Elimination of postoperative narcotics in infant robotic pyeloplasty using caudal anesthesia and a non-narcotic pain pathway. *J Urol*. 2021 Sep;206(3S):e798-799.

Morgan TM, Okoth LA, Spratt DE, Dunn R, Feng FY, Johnson AM et al, **[Burks F]**. Prospective randomized trial of gene expression classifier utility following radical prostatectomy (G-MINOR). *J Clin Oncol*, 2021 Feb 20, 39(6S):15.

Semerjian A, Fischer M, Johnson A, Noyes S, Qi J, **Hafron J**, et al, **[Johnston W]**. MP42-19 Which patient and tumor factors make radical nephrectomy appropriate treatment for suspicious CT1 renal masses? *J Urol*. 2021;206(S3):e779-e780.

Singhal U, Quarles J, Spratt D, Okoth L, Daignault-Newton S, Dunn R, et al, **[Wojno K, Burks F]**. Determining the impact of genomic classifier testing on patient-reported quality of life in men at high-risk of post-prostatectomy recurrence: Results from the G-MINOR trial. *J Urol*. 2021 Sep;206(S3):e1044.

Volin J, Herndon P, Spillinger A, Karabon P, Blumline J, Tran D, et. al, **[Hafron J]**. MP17-01 Is a preoperative type and screen required in patients undergoing common urological procedures? A cost-benefit analysis. *J Urol*. 2021;206(S3):e308.

Volin J, **Watson B**, Kopel L, **Kraemer S**, **Hafron JM**. Laparoscopic assisted robotic radical prostatectomy with pelvic lymph node dissection using viable cryopreserved umbilical tissue to improve cavernosal nerve function. Surg Endosc. 2021 Dec;35(S1):S387.

**Vollstedt A**, **Tennyson L**, Rezaee M, **Hoang L**, **Sirls L**, **Padmanabhan P**, et al, [**Peters KM**]. Fractional carbon dioxide vaginal laser for the treatment of urinary symptoms: Preliminary short-term results. Neurol Urodyn 2021 Feb;40:S225–6.

**Vollstedt A**, Wang D, Luke N, Baunoch D, Wojno K, Cline K, et al, [**Gaines N**, **Korman H**, **Mohammad S**, **Wenzler D**, **Burks F**, **Sirls L**]. Concordance between antibiotic resistance genes by multiplex polymerase chain reaction and antibiotic susceptibility by pooled antibiotic sensitivity testing in symptomatic patients with urinary tract infection. Neurourol Urodyn, 2021 Feb;40:S27–S28.

**Vollstedt, A**, Wang D, Luke N, Baunoch D, **Wojno KJ**, Cline K, et al, [**Gaines N**, **Korman H**, **Mohammad S**, **Wenzler D**, **Burks F**, **Sirls L**]. Defining and detecting bacterial consortia within urine samples of patients with symptomatic urinary tract infection. J Urol. 2021 Sep;206(S3):e457.

### **Invited Research Presentations:**

Abramowitz D, Balzano F, Simhan J, **Burks F**, Nikolavsky D, Blakely S, et al. Multi-institutional outcomes of a one-sided dorsal onlay buccal mucosal urethroplasty for penile urethral strictures accessed via a penoscrotal incision. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Chancellor MB**. Improving patient outcomes through research in benign urology: Pivot research during the pandemic to COVID associated cystitis (CAC). University of Michigan, Feb 2021. Virtual.

**Chancellor MB**. Neurogenic and myogenic etiology of bladder dysfunction. The Geriatric Urological Society Meeting at the Annual American Urological Society Meeting, 2021 Sep 12. Virtual. <https://www.eventscribe.net/2021/AUA2021/fsPopup.asp?efp=VU9RREhBU00xMTA3Mw&PresentationID=903309&rnd=0.4759323&mode=presinfo>

**Gangwish D**. Benign prostate hyperplasia as a potential protective factor against prostate cancer: Insights from a magnetic resonance imaging study of compositional characteristics. The Michigan Urological Society Resident Research Day, 2021 May 27. Virtual.

**Geisenhoff A**, **Kraemer S**, **Burks F**. A novel approach to short bulbar urethral strictures: Ventral urethrotomy for a non-transecting excision and primary anastomosis. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Geisenhoff A**, **Shetty S**. A rare case of pure N4-acetyl-sulfamethoxazole nephrolithiasis associated with trimethoprim-sulfamethoxazole treatment of pulmonary nocardiosis. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Gilleran JP**. Cystoscopy scenarios you should recognize. The North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Gilleran JP**, Krasean L. Urgency, frequency and pelvic pain: Looking beyond the bladder. Beaumont Practical and Progressive Updates in Primary Care Medicine, 2021 Apr 15-May 23. Virtual.

**Hafron JM**, Atkinson SN, Boldt-Houle DM, Harris RG. 6-month LHRH formulations are an optimal choice during the COVID-19 pandemic. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Hafron JM**, Saltzstein DR, Lacouture ME, Sutton J, Potdar R, Bhaumik, et al. Shore ND. Apa-RP: Phase 2 study of apalutamide and androgen-deprivation therapy (ADT) in treatment-naive patients post-radical prostatectomy (RP) for nonmetastatic prostate cancer at high risk for metastases. The 22nd Annual National Meeting of the Society of Urologic Oncology, 2021 Dec 1-3, Orlando, FL.

**Hoang Roberts L**, Volin J, McCartney T, **Vollstedt A**, **Peters KM**. Stimwave for pudendal neuralgia. The 95th Annual Meeting of the North Central Chapter of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Kraemer S**, **Shah M**, **Dave C**, Qi J, Sun F, **Shetty S**, et al, [**Seifman B**, **Hafron J**]. Patient reported outcomes of urinary incontinence rates using viable cryopreserved umbilical tissue over neurovascular bundles during robotic assisted radical prostatectomy. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Lamb, LE**. Developing a point-of-risk test for novel coronavirus 2019. Frontiers in Bioengineering Research Webinar Series, Rice University Department of Bioengineering. Apr 30, 2021. <https://bioengineering.rice.edu/frontiers#week3>

**Lamb LE**. Improving patient outcomes through research in benign urology: Interstitial cystitis diagnostic score development using crowdsourcing and machine learning algorithm. Oakland University William Beaumont School of Medicine, May 2021. Virtual, and University of Michigan, Feb 2021. Virtual.

**Lamb LE**. Interstitial cystitis diagnostic score development using crowdsourcing and machine learning algorithm. The Society for Basic Urology Research meeting at the Annual Meeting of the American Urological Society, 2021 Sep 11. Virtual. <https://www.eventscribe.net/2021/AUA2021/fsPopup.asp?PresentationID=903176&query=crowdsourcing&mode=presinfo>

Nguyen J, Friedman B, **Vollstedt A**, Diaz M, **Hoang Roberts L**, **Sirls L**. The Altis mid-urethral sling: One surgeon's experience with immediate post-operative adjustment. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

Rovner ES, Gomelsky A, Smith AL, Rickey LM, **Gilleran JP**. Crossfire: Controversies in urology debate: Prophylactic suburethral sling at time of prolapse sling in era of mesh controversy. The American Urological Society Annual Meeting, 2021 Sep 10-13. Virtual. <https://www.eventscribe.net/2021/AUA2021/agenda.asp?pfp=September&fa=Plenary&startdate=9%2F9%2F2021&enddate=9%2F13%2F2021>

**Shah M**. Patient reported outcomes of urinary incontinence rates using viable cryopreserved umbilical tissue over neurovascular bundles during robotic assisted radical prostatectomy. The Michigan Urological Society Resident Research Day, 2021 May 27. Virtual.

**Shetty Z**, Amin M, Balaraman S, **Shetty S**. A unique case of renal pelvic urothelial carcinoma with extensive small round cell sarcoma differentiation showing EWSR1 gene rearrangement. The 95th

Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL.

<https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Shetty Z, Schober M.** Metastatic Crohn's disease: A case of genital cutaneous Crohn's disease involving the penis and scrotum. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Shetty Z.** Subtotal cryotherapy as treatment of localized prostate cancer. The Michigan Urological Society Resident Research Day, 2021 May 27. Virtual.

**Stephens JR, Burks F.** Acute segmental testicular infarction resulting from illicit anabolic steroid use. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL.

<https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Stephens JR, Rosenstein D, Burks F.** A comparative analysis of pelvic fracture urethral injury repairs in U.S. and third world country patients. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Stephens JR.** Comparing outcomes of pelvic fracture urethral injury repair in their world countries versus the United States. The Michigan Urological Society Resident Research Day, 2021 May 27. Virtual.

Tyson MD, Morris D, Palou J, Mir MC, Dickstein RJ, Guerrero-Ramos F, et al, **[Hafron JM]**. Safety, tolerability, and efficacy of TAR-200 in patients with muscle-invasive bladder cancer who were unfit for curative intent therapy: A phase 1 trial. The 22nd Annual Meeting of the Society of Urologic Oncology, 2021 Dec 1-3, Orlando, FL.

Vasavada SP, **Chancellor MB**, Lenherr SM. Debate: First line medical therapy for a 60 year old female with OAB - beta agnosits versus anticholinergics. The Annual Meeting of the American Urological Society, 2021 Sep 10. Virtual.

<https://www.eventscribe.net/2021/AUA2021/fsPopup.asp?Mode=presInfo&PresentationID=903421>

Volin J, Herndon P, Spillinger A, Karabon P, Blumline J, Tran D, et. Al, **[Hafron, J]**. Is a preoperative type and screen required in patients undergoing common urological procedures? A cost-benefit analysis. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

Volin J, **Watson B**, Kopel L, **Kraemer S, Hafron JM**. Robotic radical prostatectomy using umbilical tissue to improve cavernosal nerve function. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

Vollstedt A, **Tennyson L**, Rezaee M, **Hoang Robers L, Sirls L, Padmanabhan P**, et al, **[Peters KM]**. Fractional carbon dioxide vaginal laser for the treatment of urinary symptoms: Preliminary short-term results. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

Vollstedt A, Wang D, Luke N, Baunoch D, **Wojno K**, Cline K, et al, **[Gaines N, Korman H, Mohammad S, Wenzler D, Burks F, Sirls L]**. Concordance between antibiotic resistance genes by multiplex polymerase chain reaction and antibiotic susceptibility by pooled antibiotic sensitivity testing in symptomatic patients with urinary tract infection. The 95th Annual Meeting of the North

Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Watson B, Kraemer S, Rosenberg B.** A case of penile fracture with bilateral corporal injury and complete urethral disruption. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Watson B,** Touriel R, Volin J, **Burks F.** Reimbursement incentive associated with decreased inpatient opioid prescribing following robotic radical prostatectomy. The 95th Annual Meeting of the North Central Section of the AUA, 2021 Oct 6-9, Chicago, IL. <https://ncsaua.org/docs/meetings/ncs2110/ncs-2021-program-book.aspx>

**Zwaans B.** Improving patient outcomes through research in benign urology: Radiation cystitis modeling. University of Michigan, Feb 2021. Virtual.