

Report of Research Accomplishments



2019

Beaumont
HEALTH

Report of Research Accomplishments Beaumont Health Research Institute

For more than 45 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 2019 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 (RI), 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 799 residents and 109 fellows, and 159 research staff.

Funding

Research Institute actual operations \$34.0M

External Sources of Research Funding

- Non-Federal sponsors 29 %
- Federal sponsors 24 %
- Philanthropic sponsors 11 %
- Intellectual Property 36 %

Types of Research at Beaumont Health

Percentage of expenses

- Clinical Research 42 %
- Pre-Clinical Research 58 %

External Research Funding by Service Line

- Radiation Oncology 27 %
- Urology 8 %
- Orthopedics 6 %
- Emergency Medicine 6 %
- Cardiology 6 %
- Hematology/Oncology 5 %
- Infectious Disease 5 %
- Ob/Gyn 3 %
- Other (Various, Admin/Inv. IP Share) 34 %

Clinical Research

- 1,612 clinical studies
- 405 interventional studies
- 1,207 non-interventional studies
- 505 active principal investigators
- 3,900 registered research participants

Educational Opportunities for Research Staff

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

Support Staff Available

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

Support for the Research Institute

- AAALAC accredited animal facility
- AAHRPP accredited human research protection program
- Beaumont Research Coordinating Center for multicenter clinical trials
- 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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BEAUMONT HOSPITAL
Royal Oak, Troy, Grosse Pointe

ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

Peer-Reviewed Articles:

Hirsch M, Geisz-Everson M, Clayton BA, Wilbanks B, **Golinski M**, Kremer M, et al. It's never just a block: An analysis of regional anesthesia closed claims. AANA J, October 2019;87(5):365-373.

Larach MG, Klumpner TT, Brandom BW, Vaughn MT, Belani KG, **Soto R**, et al. Succinylcholine use and dantrolene availability for malignant hyperthermia treatment: Database analyses and systematic review. Anesthesiology, January 2019;130:41-54.

Lau W, Shannon F, Hanzel G, Safian R, Abbas A, **Fayne R**, et al. Transfemoral transcatheter aortic valve replacement using fascia iliaca block as an alternative approach to conscious sedation as compared to general anesthesia. Cardiovasc Revasc Med, September 2019.

Lee Y, **Banooni A**, Yuki K, Staffa SJ, DiNardo JA, Brown ML. Incidence and predictors of postoperative nausea and vomiting in children undergoing electrophysiology ablation procedures. Pediatr Anaesth, December 23, 2019.

Luehmann N, Staubach M, Akay B, **Collier P**, **Han R**, Riggs T, et al. Benefits of a family-centered approach to pediatric induction of anesthesia. J Pediatr Surg, January 2019;54:189-193.

Mathis MR, Naik BI, Freundlich RE, Shanks AM, Heung M, Kim M, et al, [**Soto R**, **Wilczak J**]. Preoperative risk and the association between hypotension and postoperative acute kidney injury. Anesthesiology, November 26, 2019.

Neves S, **Soto R**. Distraction in the OR: Bells and whistles on silent mode. Int Anesth Clinics, Summer 2019;57:62-67.

Saager L, Maiese E, Bash L, Meyer T, Minkowitz H, Groudine S, et al, [**Soto R**]. Incidence, risk factors, and consequences of residual neuromuscular block in the United States: The prospective, observational, multicenter RECITE-US study. J Clin Anes, August 2019;55:33-41.

Soto R, **Kado J**, Kerner B, O'Leary P, Rosen G. Caring for the care-giver: Debriefing following intra-operative death. Midwestern J of Anesth Qual and Safety, October 2019,1:1.

Soto R. Postoperative opioid prescriptions: How surgeons can help alleviate the opioid crisis. Pain and Therapy, August 2019.

Abstracts with Associated Research Presentations:

Ahn J, **Lepczyk L**, **Soto R**. Management of hypoxia in one-lung ventilation during bilateral wedge resection in a pediatric patient. ASA Meeting, Orlando, FL, October 2019.

Barker C, **Soto R**. The inherent dangers of order sets. ASA Meeting, Orlando, FL, October 2019.

ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

Abstracts with Associated Research Presentations continued:

Burandt D, Soto R. Epic analysis of sevoflurane and isoflurane usage patterns and fresh gas flow rates. Annual American Society of Anesthesiology (ASA) Meeting, Orlando, FL, October 19-23, 2019.

Burandt D, Banooni A. Inappropriate firing of implantable cardioverter-defibrillator in an emergent craniectomy. ASA Meeting, Orlando, FL, October 2019.

Burandt D, Ohanian S. Cardiac tamponade during pulmonary vein isolation ablation. ASA Meeting, Orlando, FL, October 2019.

Chokr M, Vahabzadeh C. Infective endocarditis in healthy pediatric patient. ASA Meeting, Orlando, FL, October 2019.

Chokr M, Yaldou B. Differential diagnosis of hypoxemia following right femur fracture open reduction internal fixation. ASA Meeting, Orlando, FL, October 2019.

Chokr M, Mastromonaco M, Asbahi M. Management of tracheal stenosis and efficacy of heliox for tracheal obstruction. ASA Meeting, Orlando, FL, October 2019.

Chon C, **Katz E, Havens A, Soto R.** Prevention of electrocautery-related fires in the operating room. ASA Meeting, Orlando, FL, October 2019.

Chon C, **McDavid M, Banooni A.** Pediatric hemodynamic management and maximum surgical blood ordering schedule criteria for thoracic procedures. ASA Meeting, Orlando, FL, October 2019.

Daklallah Y, Nowak Z, Asbahi M. To dialyze or not to dialyze, A challenging case report. ASA Meeting, Orlando, FL, October 2019.

Daklallah Y, Nowak Z, Asbahi M. A case report of respiratory failure secondary to respiratory infection with multiple organisms. ASA Meeting, Orlando, FL, October 2019.

Dobson P, **Soto R, Asbahi M.** The effectiveness of adductor canal blockade compared to no blockade in total knee arthroplasty. Annual Regional Anesthesiology & Acute Pain Medicine Conference, Las Vegas, NV, April 11-13, 2019.

Haddad M, **Mossa-Basha N, Soto R.** Neuroimaging in TBI: Can it predict outcomes? ASA Meeting, Orlando, FL, October 2019.

Haddad M, **Mossa-Basha N, Soto R.** Difficulty of multidisciplinary communication in the ICU. ASA Meeting, Orlando, FL, October 2019.

Jeon A, **Zhang L, Villalba P, Soto R.** Complications associated with IV disconnection and infiltration. ASA Meeting, Orlando, FL, October 2019.

Katz E, Soto R. Complexities in anesthetic management of peripartum cardiomyopathy. ASA Meeting, Orlando, FL, October 2019.

ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

Abstracts with Associated Research Presentations continued:

Katz E, Yaldou B. Urgent cesarean section following discovery of failed epidural: What, why, and how? ASA Meeting, Orlando, FL, October 2019.

Khan H, Soto R. Sedation wean with ketamine. ASA Meeting, Orlando, FL, October 2019.

Khan H, Soto R. Confusion in the elderly: A differential diagnosis. ASA Meeting, Orlando, FL, October 2019.

Kondoleon N, **Soto R.** Considerations in patients with vertebral malformations. ASA Meeting, Orlando, FL, October 2019.

Kraemer J, Tobes D, Vahabzadeh C, Kado J, Forrest M, Asbahi M. Postpartum pulmonary edema: Things can change in a flash. ASA Meeting, Orlando, FL, October 2019.

Kraemer J, Toma B, Vahabzadeh C. Placenta percreta: Preparing for the worst to provide the best care. ASA Meeting, Orlando, FL, October 2019.

Kramer J, Soto R, Yaldou, B. The MMORT: Screening for risk of future dependence in opioid naïve patients. Post Graduate Assembly in Anesthesia 202, New York, NY, December 14, 2019.

Larson B, McDavid M, Burandt D, Hussein I, Tadros, Soto R. Analysis of opioid use following implementation of a colorectal enhanced recovery after surgery program. ASA Meeting Abstracts, Orlando, FL, October 2019.

Larson B, McDavid M, Kouatli Y. Debriefing after traumatic intraoperative events. ASA Meeting, Orlando, FL, October 2019.

Larson B, Lepczyk L, Kouatli Y. Anticipated blood loss minimal...famous last words. ASA Meeting, Orlando, FL, October 2019.

Lau W, Shannon F, Hanzel G, Safian R, Abbas A, **Fayne R**, et al. Transfemoral transcatheter aortic valve replacement using fascia iliaca block as an alternative approach to conscious sedation as compared to general anesthesia. Transcatheter Cardiovascular Therapeutics Meeting, San Francisco, CA, September 25-29, 2019.

Lepczyk L, Larson B, Kado J. Death by intubation: Securing the airway in massive PE. ASA Meeting, Orlando, FL, October 2019.

Lepczyk L, Asbahi M, Villalba P. ARDS secondary to severe chorioamnionitis requiring VV-ECMO. ASA Meeting, Orlando, FL, October 2019.

Lepczyk L, Toma B, Haddad M, Schmidt, Park, Fayne R, Soto R. An enhanced recovery program for same day spine surgery. ASER Meeting, Scottsdale, AZ, September 11-14, 2019; ASA Meeting Abstracts, Orlando, FL, October 2019.

ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

Abstracts with Associated Research Presentations continued:

Maheshwari R, Soto R. Endobronchial biopsy complications. ASA Meeting, Orlando, FL, October 2019.

Mastromonaco M, **Katz E, Soto R.** Alternative regimens of sedation and analgesia for mechanically ventilated patients in the Surgical Intensive Care Unit. ASA Meeting, Orlando, FL, October 2019.

Mastromonaco M, **Tobes, D, Soto R.** Medical vs surgical management of acute hemothorax due to metastatic pulmonary disease. ASA Meeting, Orlando, FL, October 2019.

McDavid M, Gill S. Thrombosis during cardiac surgery. ASA Meeting, Orlando, FL, October 2019.

McDavid M, Collier P. The dangers of non-operating room anesthesia. ASA Meeting, Orlando, FL, October 2019.

McDavid M, Havens A, Soto R. Analysis of sugammadex use in a variety of patient populations using multicenter perioperative outcomes group data. ASA Meeting Abstracts, Orlando, FL, October 2019.

McDavid M, Collier P. The dangers of non-operating room anesthesia. ASA Meeting, Orlando, FL, October 2019.

Mossa-Basha N, Schostak M. Basal septal wall hypertrophy. ASA Meeting, Orlando, FL, October 2019.

Mossa-Basha N, Soto R. What is the appropriate subhypnotic propofol infusion dose for the prevention of post-operative nausea and vomiting: A meta-analysis of six randomized-controlled trials. 2019 ASA Meeting Abstracts, Orlando, FL, October 2019.

Mossa-Basha N, Toma B, Sikorsky M. The dangers of non-operating room anesthesia. ASA Meeting, Orlando, FL, October 2019.

Nowatzke R, Chokr M, Asbahi M. Lung isolation and embolization in pulmonary hemorrhage secondary to aspergillus pneumonia. ASA Meeting, Orlando, FL, October 2019.

Nowatzke R, Chokr M, Asbahi M. Complete heart block following herpes zoster outbreak. ASA Meeting, Orlando, FL, October 2019.

Nowak Z, Havens A, Soto, R. Production pressure and its impact on patient safety and anesthesia provider's well-being. ASA Meeting, Orlando, FL, October 2019.

Nowak Z, Havens A, Soto, R. Did you rotate the head? A case of pressure induced alopecia. ASA Meeting, Orlando, FL, October 2019.

Pamacheche C, **McDavid M, Soto R.** The belligerent patient. ASA Meeting, Orlando, FL, October 2019.

ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

Abstracts with Associated Research Presentations continued:

Pamacheche C, **McDavid M, Soto R**. The pharmacoeconomics of human papilloma virus. ASA Meeting, Orlando, FL, October 2019.

Papadelis A, **Burandt D, Soto R**, Schallmo S. Perioperative risk assessment and reporting protocol for human trafficking. ASA Meeting, Orlando, FL, October 2019.

Papadelis A, **Burandt D, Soto R**, Schallmo S. Adverse reaction to methergine in the peripartum patient. ASA Meeting, Orlando, FL, October 2019.

Reitz L, Carly F, Lisa S. Jacob J, **Schlecht K**. Expectations of anesthesia clerkship: Identifying medical student perspectives. ASA Meeting Abstracts, Orlando, FL, October 2019.

Saager L, **Soto R**. Respiratory depression on general care floors increases cost of care: Results from the prodigy trial. ASA Meeting Abstracts, Orlando, FL, October 2019.

Stafford P, Eichenbaum K. Wolf-Hirschhorn syndrome. ASA Meeting, Orlando, FL, October 2019.

Stafford P, Kouatli Y. Addisonian crisis in the ICU. ASA Meeting, Orlando, FL, October 2019.

Stafford P, Glaeser A. Factor XI deficiency in the parturient. ASA Meeting, Orlando, FL, October 2019.

Stafford P, Havens A, Soto R. Kaizen: Utilizing rapid transformational business quality improvement processes to meet ACGME QI guidelines. ASA Meeting Abstracts, October 2019; Michigan Quality Summit, Troy, MI, May 2019; Michigan Summit Quality Improvement Patient Safety & Wellness, May 29, 2019.

Tobes D, Kraemer J, Vahabzadeh C. Troubleshooting complicated labor epidural analgesia: Improving success and reducing complications. ASA Meeting, Orlando, FL, October 2019.

Tobes D, Soto, R. Should we even care about myasthenia gravis in the era of sugammadex. ASA Meeting, Orlando, FL, October 2019.

Toma B, Lepczyk L, Soto R. Delayed epidural abscess diagnosis following the percutaneous discectomy. ASA Meeting, Orlando, FL, October 2019.

Toma B, *Masson S, Sikorsky M. A rare case of diffuse idiopathic sclerosing hyperostosis complicating intrathecal pump delivery. ASA Meeting, Orlando, FL, October 2019

Yuan J, **Tobes D, Soto R**. Speaking up in the operating room as the medical student. ASA Meeting, Orlando, FL, October 2019.

Zhang J, **Lepczyk L, Soto R**. Anesthetic management of a parturient with previous spinal cord injury. ASA Meeting, Orlando, FL, October 2019.

ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

Abstracts with Associated Research Presentations continued:

Zhang J, **Lepczyk L**, **Soto R**. Anesthetic implications of a parturient with moyamoya disease. ASA Meeting, Orlando, FL, October 2019.

Zhang L, **Faulkner M**. A case of incomplete tetralogy of fallot. ASA Meeting, Orlando, FL, October 2019.

Zhang L, **Gill S**. IVC thrombectomy. ASA Meeting, Orlando, FL, October 2019

Non Peer-Reviewed Research Publications:

Basha N. Perioperative delirium. MSA Newsletter, Winter/Spring 2019.

Dangler L, **Forrest M**. A diverse perioperative physician workforce includes those with disabilities. ASA Newsletter, June 2019.

Soto R. Opinion: Offer patients more opioid-free options for pain. Detroit News, September 2019.

Stahl D, Padilla C, **Asbahi M**. Maternal Critical Care: The intensivist's place in the obstetric care team. ASA Newsletter, May 2019.

Toma B. Driving after anesthesia. MSA Newsletter, Spring/Summer 2019.

BIOBANK

Peer-Reviewed Articles:

***Kara S**, Pirela-Morillo GA, Gilliam CT, **Wilson GD**. Identification of novel susceptibility genes associated with seven autoimmune disorders using whole genome molecular interaction networks. *Journal Autoimmunity*, February 2019;97:48-58.

***Kara S**, Hanna A, Pirela-Morillo GA, Gilliam CT, **Wilson GD**. Molecular Interaction Network Approach (MINA) identifies association of novel candidate disease genes. *MethodsX*, May 2019; 6:1286-1291.

Paulauskis JD, Blanc VM, Carey T, Chesla DW, Frey RC, ***Geddes T**, [**Pruetz B, Wilson GD**]. Great Lakes Biorepository Research Network's annual biobanking symposium: A focus on precision medicine. *Biopreservation and Biobanking*, June 2019;17(6):598-602.

***Wilson TG**, Hanna A, Recknagel J, **Pruetz BL**, *Baschnagel AM, **Wilson GD**. Prognostic significance of MTOR expression in HPV positive and negative head and neck cancers treated by chemoradiation. *Head Neck*, October 27, 2019.

Vijay V, Miller R, Vue GS, Pezeshkian MB, Maywood M, Ast AM, et al, [***Geddes T**]. Interleukin-8 blockade prevents activated endothelial cell mediated proliferation and chemoresistance of acute myeloid leukemia. *Leuk Res*, September 2019;84:106180.

Zhang KJ, **Wilson GD**, ***Kara S**, ***Majeske A**, Zhang PL, Hafron JM. Diagnostic role of kidney injury molecule-1 in renal cell carcinoma. *Int Urol Nephrology*, November 2019;51(11):1893-1902.

Abstracts with Associated Research Presentation

***Majeske AJ**, ***Geddes TJ**, Keidan R, **Wilson GD**. Development of a gene signature to predict positive or negative sentinel nodes as a prognostic marker in melanoma. Annual Meeting of the American Association for Cancer Research (AACR), Atlanta, GA, March 29-April 3, 2019.

Pruetz B, *Geddes T, **Farwell M**, **Karabon R**, **Theis J**, *Shadaia S, et al, [**Wilson G**]. Quality enhancements of your biorepository through continuous metrics review. Leaders in Biobanking Congress 2019, Miami, FL, October 30–November 1, 2019.

CARDIOVASCULAR MEDICINE

Peer-Reviewed Articles:

Abbas AE, Pibarot P. Hemodynamic characterization of aortic stenosis states. *Catheter Cardiovasc Interv*, April 2019.

Abbas AE, Mando R, Hanzel G, Gallagher M, Safian R, Hanson I, et al, [**Almany S**]. Invasive versus echocardiographic evaluation of transvalvular gradients immediately post-transcatheter aortic valve replacement. Demonstration of significant echocardiography-catheterization discordance. *Circ Cardiovasc Interv*, July 2019.

Abbas AE. Valve-in-valve transcatheter aortic valve replacement. The phobia of an elevated echocardiographic gradient. *JACC*, Vol.74, No.11, September 2019;1512-7.

Abbas AE, Hanzel G, Shannon F, Gallagher M, Mando R, Chaddha A, et al. Post-TAVR trans-aortic valve gradients: Echocardiographic versus invasive measurements. *Structural Heart* 2019 Vol.3 No.4,348-350.

Ali-Ahmed F, Matlock D, Zeitler EP, Thomas KL, **Haines DE**, Al-Khatib SM. Physicians' perceptions of shared decision-making for implantable cardioverter-defibrillators: Results of a physician survey. *J Cardiovasc Electrophysiol*, November 2019;30(11):2420-2426.

Ali-Ahmed F, Goyal V, Patel M, Orelaru F, **Haines DE**, Wong WS. High-power, low-flow, short-ablation duration-the key to avoid collateral injury? *J Interv Card Electrophysiol*, June 2019; 55(1):9-16.

Araujo CG, **Franklin F**, Laukkanen J, Myers J, Niebauer J, Scharhag J, et al. Exercise, sports & cardiovascular health: Relevant questions and answers. *International Journal of Cardiovascular Sciences*, August 2019.

Barnes GD, Li Y, Gu X, Haymart B, Kline-Rogers E, **Almany S**, et al. Periprocedural bridging anticoagulation: Measuring the impact of a clinical trial on care delivery. *Am J Med*, January 2019;132(1):109.

Bloomingtondale R, Walters HL 3rd, **Mertens A, Ramos R, Gallagher M**, Forbes TJ, et al. Coronary sinus stenosis with right coronary artery to coronary sinus fistula. *Ann Thorac Surg*, July 2019;108(1).

Chinnaiyan KM, Safian RD, Gallagher ML, George J, Dixon SR, Bilolikar AN, et al, [**Abbas AE, Shoukfeh M, Brodsky M, Stewart J, Cami E, Forst D, Timmis S, Crile J, Raff GL**]. Clinical use of CT-derived fractional flow reserve in the emergency department. *JACC Cardiovasc Imaging*, July 11, 2019.

***Dalal PK, Mertens A, Shah D, Hanson I**. Hemodynamic support using percutaneous transfemoral Impella 5.0 and Impella RP for refractory cardiogenic shock. *Case Rep Cardiol*, January 23, 2019.

CARDIOVASCULAR MEDICINE

Peer-Reviewed Articles continued:

David SW, Khan ZA, Patel NC, Metzger DC, Wood FO, Wasserman HS, et al, **[Hanson ID, Dixon SR]**. Evaluation of intracoronary hyperoxic oxygen therapy in acute anterior myocardial infarction: The IC-HOT study. *Catheter Cardiovasc Interv*, April 2019;93:882-890.

Dennis PM, Raghanti MA, Meindl RS, Less E, Henthorn E, Devlin W, et al, **[Kutinsky I]**. Cardiac disease is linked to adiposity in male gorillas (*Gorilla gorilla gorilla*). *PLoS One*, June 26, 2019;14(6).

***Feldmann K, Cami E, Safian RD**. Planning percutaneous coronary interventions using computed tomography angiography and fractional flow reserve-derived from computed tomography: A state-of-the-art review. *Catheter Cardiovasc Interv*, February 1, 2019; 93(2):298-304.

***Feldmann KJ, Goldstein JA, *Marinescu V, Dixon SR, *Raff GL**. Disparate impact of ischemic injury on regional wall dysfunction in acute anterior vs inferior myocardial infarction. *Cardiovasc Revasc Med*, November 2019;20(11):965-972.

Gertz ZM, Pibarot P, Douglas PS, Elmariyah S, Alu MC, McAndrew T, et al, **[Zhang Y, Abbas AE]**. Implications of left ventricular geometry in low-flow aortic stenosis: A PARTNER 2 trial subanalysis. *JACC: Cardiovasc Imaging*, 2019 February;12(2):367-368.

Gilchrist SC, Barac A, Ades PA, Alfano CM, **Franklin BA**, Jones LW, et al. Cardio-oncology rehabilitation to manage cardiovascular outcomes in cancer patients and survivors: A scientific statement from the American Heart Association; American Heart Association Exercise, Cardiac Rehabilitation, and Secondary Prevention Committee of the Council on Clinical Cardiology; Council on Cardiovascular and Stroke Nursing; Council on Peripheral Vascular Disease. *Circulation*, 2019 May 21;139(21).

Gurm HS, Mavromatis K, Bertolet B, Kereiakes DJ, Amin AP, Shah AP, et al, **[Hanzel GS]**. Minimizing radiographic contrast administration during coronary angiography using a novel contrast reduction system: A multicenter observational study of the DyeVert™ plus contrast reduction system. *Catheter Cardiovasc Interv*, 2019 June 1;93(7):1228-1235

Haines DE. Can an expanding lattice electrode catheter expand our success in catheter ablation? *Circ Arrhythm Electrophysiol*, 2019 April;12(4).

Jae SY, Kurl S, Kunutsor SK, **Franklin BA**, Laukkanen JA. Relation of maximal systolic blood pressure during exercise testing to the risk of sudden cardiac death in men with and without cardiovascular disease. *Eur J Prev Cardiol*, 2019 October 11.

Young Jae S, Kurl S, Kim HJ, **Franklin BA**, Kunutsor SK, Kang M, et al. Is there an "asymptote of gain" beyond which further increases in cardiorespiratory fitness convey no additional benefits on mortality and atrial fibrillation? *Mayo Clinic Proceedings*, 2019;94:545-547.

Quindry JC, **Franklin BA**, Chapman M, Humphrey R, Mathis S. Benefits and risks of high-intensity interval training in patients with coronary artery disease. *American Journal of Cardiology*, 2019;23:1370-1377.

CARDIOVASCULAR MEDICINE

Peer-Reviewed Articles continued:

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Kim HJ, Jae SY, Choo J, Yoon JK, Kim SH, Königstein K, et al, **[Franklin BA]**. Mediating effects of exercise capacity on the association between physical activity and health-related quality of life among adolescents with complex congenital heart disease. *Am J Hum Biol*, 2019 November;31(6).

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Lau WC, Shannon FL, Hanzel GS, Safian RD, Abbas AE, Chen NW, et al, **[Sakwa MP, Almany SL, Hanson ID, Fayne RJ]**. Transfemoral transcatheter aortic valve replacement using fascia iliaca block as an alternative approach to conscious sedation as compared to general anesthesia. *Cardiovasc Revasc Med*, 2019 September 7.

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Mando R, Gemayel R, **Chaddha A, Barbat JJ, Cami E**. Peripherally embolizing aortic thrombus: The work-up, management, and outcome of primary aortic thrombus. *Case Rep Cardiol*, 2019 July 2.

McDaniel MC, Courtney M, **Bowers TR**. Unraveling the Gordian knot: Stratifying risk and individualizing care for each patient. *PERT Consortium, supplement to Endovascular Today*, Vol. 18, No.7, July 2019.

Murray S, Kishbaugh JC, Hayek LC, **Kutinsky I**, Dennis PM, **Devlin W**, et al. Diagnosing cardiovascular disease in western lowland gorillas (*Gorilla gorilla gorilla*) with brain natriuretic peptide. *PLoS Onem*, 2019 March 19;14(3).

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CARDIOVASCULAR MEDICINE

Peer-Reviewed Articles continued:

Richardson CR, **Franklin BA**, Moy ML, Jackson EA. Advances in rehabilitation for chronic diseases: Improving health outcomes and function. *BMJ* 2019;365:l2191.

Rizik DG, Burke RF, **Goldstein JA**. Urgent mechanical circulatory support and transcatheter mitral valve repair for refractory hemodynamic compromise. *Catheter Cardiovasc Interv*, 2019 November 15;94(6):886-892.

Rothschild DP, Goldstein JA, Ciacci J, Bowers TR. Ultrasound-accelerated thrombolysis (USAT) versus standard catheter-directed thrombolysis (CDT) for treatment of pulmonary embolism: A retrospective analysis. *Vasc Med*, 2019 June;24(3):234-240.

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Sukul D, Seth M, Barnes GD, Dupree JM, Syrjamaki,JD **Dixon SR**, et al. Cardiac rehabilitation use after percutaneous coronary intervention. *JACC*, Vol 73, No 24 2019.

Thomas RJ, Beatty AL, Beckie TM, Brewer LPB, Brown TM, **Franklin BA**, et al. Home-based cardiac rehabilitation: A scientific statement from the American Association of Cardiovascular and Pulmonary Rehabilitation, American Heart Association; American College of Cardiology; *Circulation*, 2019.

Vemulapalli S, Carroll JD, Mack MJ, Li Z, Dai D, Kosinski AS, et al, **[Hanzel G]**. Procedural volume and outcomes for transcatheter aortic-valve replacement. *N Engl J Med*, 2019 June 27;380(26):2541-2550.

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Book Chapter or Full Book Publications:

Franklin BA, Kokkinos P. Exercise-related acute cardiovascular events: Pathophysiologic considerations, risk modulators, and prophylactic interventions. *Cardiorespiratory Fitness in Cardiometabolic Diseases*. Springer Nature Switzerland, 2019 Chapter 7;p123-136.

Franklin BA, Sallis RE, O'Connor FG. Exercise prescription and guidance for adults. *UpToDate*, Wolters Kluwer, Waltham, MA, 2019.

CARDIOVASCULAR MEDICINE

Abstracts with Associated Research Presentations:

Almany SL. Featured technological trends, Transcatheter Cardiovascular Therapeutics, San Francisco, CA, September 2019.

Almany SL. LAA complications. Transcatheter Cardiovascular Therapeutics, San Francisco, CA, September 2019.

Ashbrook MA, Bilolikar AB, Vargas Y, Podolsky R. Gender differences in plaque characteristics by coronary computerized tomographic angiography. American College of Cardiology Conference, March 16, 2019.

Franklin BA. Exercise and cardiovascular health: How much and what kind? 2019 American Society for Preventive Cardiology Congress on CVD Prevention; San Antonio, TX, July 19-21, 2019.

Lau W, Shannon F, Hanzel G, Sakwa M, Abbas A, Safian R, et al, [**Almany S, Vivacqua A**]. Transfemoral transcatheter aortic valve replacement using fascia iliaca block as an alternative approach to conscious sedation as compared to general anesthesia. Transcatheter Cardiovascular Therapeutics, San Francisco, CA, September 2019.

Tucker C, Almany SL, Hanson I, Hanzel G. Mechanical circulatory support for acute severe prosthetic aortic regurgitation: A short term bridge to TAVR. Transcatheter Cardiovascular Therapeutics, San Francisco, CA, September 2019.

Non Peer-Reviewed Research Publications:

Caswell J, **Franklin BA.** Setting and achieving health goals: Taking steps to get better at getting better. American Heart Association, Heart Insight Magazine, Summer 2019.

Chinnaiyan, K. Role of stress management for cardiovascular disease prevention. Curr Opin Cardiol, 34(5):531-535, September 2019.

Franklin BA. 5 questions about exercise and cardiovascular health. Cardiology Consultant, 2019.

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COLON AND RECTAL SURGERY

Peer-Reviewed Articles:

Kawak S, Turaihi H, Bjordahl P. Transanal stricturoplasty: A minimally-invasive approach to a challenging problem. *Journal of Surgical Case Reports*, 2019;3:1-3.

Macari D, **Kawak S**, Raofi V, **Wasvary H**, Jaiyesimi I. Recurrence pattern and outcomes in T4 colon cancer: A single institution analysis. *Journal of Surgical Oncology*, 2019 November 14.

Reilly D, Kawak S, Wasvary J, Ziegler M, Wasvary H. Opioid requirements in laparoscopic colectomies: Do ERAS protocols make a difference? *Dis Col Rectum*, 62(6):E149.

Turaihi H, Wasvary H, Ziegler M. Trans-anal strictureplasty: A novel approach to a relatively common problem. *Dis Col Rectum*, 63(6):E183-4.

Abstracts with Associated Research Presentation:

Hilli R, Turaihi HA, Kawak S, Wasvary H. Does day of the week impact length of stay in colorectal patients under ERAS pathways? American Society of Colon and Rectal Surgeons (ASCRS) 2019 Annual Scientific Meeting, Cleveland, OH, June 1-5, 2019; Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019; Michigan Surgical Quality Collaborative Conference, Detroit, MI, October 10-11, 2019.

Kawak S, Macari D, Wasvary H, Jaiyesimi I. Recurrence pattern and outcomes in T4 colon cancer: A single institution analysis. 7th Annual Chicago Colorectal Symposium 2019, Chicago IL, March 9, 2019.

Macari D, **Kawak S**, Hanna L, Ezekwudo D, **Wasvary H**, Jaiyesimi I. Current standard adjuvant therapy insufficient for T4 colon adenocarcinoma. American Society of Clinical Oncology - Gastrointestinal Cancers Symposium, San Francisco, CA, January 17-19, 2019.

Reilly D, Kawak S, Wasvary J, Ziegler M, Wasvary H. Opioid requirements in laparoscopic colectomies: Do ERAS protocols make a difference? Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019; Southeast Michigan Center for Medical Education Research Forum, Lovett Hall, Henry Ford, Dearborn, MI, May 22, 2019; American Society of Colon and Rectal Surgeons (ASCRS) 2019 Annual Scientific Meeting, Cleveland, OH, June 1-5, 2019; Michigan Surgical Quality Collaborative 2019 Conference, Detroit, MI, October 10-11, 2019.

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Peer-Reviewed Articles:

Chapman J, Sutherland E, Palka J. Hepatobiliary iminodiacetic acid scanning detects previously unknown hepatic metastases from colorectal adenocarcinoma. *J Nucl Med Technol*, March 2019;47(1):83-84.

Colvin R, Savin JH, Kirsch A, *Roberson J, Lal N, Al-Katib S. Reproducibility of ventricular diameter ratio measurements in acute pulmonary embolism at an academic institution. *Journal of Vascular and Interventional Radiology*, December 27, 2019.

Fidler JL, Gunn ML, Soto JA, **Sokhandon F.** Gastrointestinal bleeding disease-focused panel consensus recommendations for CTA technical parameters in the evaluation of acute overt gastrointestinal bleeding. *Abdom Radiol*, September 2019;44:2957–2962.

Golchian D, ***Grushky A**, Noujaim D, Altawan A. Chorda tympani schwannoma. *American College of Radiology (ACR) Case-in-Point*, February 12, 2019.

Kaleka G, McCormick M, **Krishnan A.** Beta-Propeller Protein-Associated Neurodegeneration (BPAN) Detected in a child with epileptic spasms. *Cureus*, August 2019;11(8).

Meyer N, Al-Katib S, Sokhandon F. Cholecystohepatic duct: A biliary duct variant resulting in post cholecystectomy bile leak-case report and review of normal and common variant biliary anatomy. *Case Rep Radiol*, June 17, 2019.

***Rezvani S, Tominna M, Al-Katib S,** Smith MD, Cousineau C, Al-Katib A. Lymphomatoid granulomatosis in a patient with chronic lymphocytic leukemia and rapidly progressing peribronchovascular pulmonary infiltrates. *Case Rep Pulmonol*, January 21;2019.

Rothschild D, Goldstein J, **Ciacci J,** Bowers T. Ultrasound-accelerated thrombolysis (USAT) versus standard catheter-directed thrombolysis (CDT) for treatment of pulmonary embolism: A retrospective analysis. *Vascular Medicine*, March 2019.

Saon MD, **Walker DT,** Nair GB, **Al-Katib S.** Pulmonary fat embolism syndrome after liposuction surgery. *Clinical Pulmonary Medicine*, January 2019;26(1):32-25.

Sealy-Jefferson S, **Roseland ME,** Cote ML, Lehman A, Whitsel EA, Mustafaa FN, et al. Rural-urban residence and stage at breast cancer diagnosis among postmenopausal women: The Women's Health Initiative. *J Womens Health (Larchmt)*, February 2019;28(2):276-283.

Sharma, J, Krishnan A. Tension pneumocephalus. Case-in-point. *American College of Radiology (ACR)*, April 30, 2019.

Tran K, Basmaji C, Shetty M. Ruptured aortic aneurysm with aorto-caval fistula. *American College of Radiology (ACR)*, September 2019. **Awarded: Case of the Month.**

DIAGNOSTIC RADIOLOGY and MOLECULAR IMAGING

Peer-Reviewed Articles continued:

Wright J, No A, Kalma J, Joueiter DM, Esterle J, **Marcantonio D**, et al, [**Wiater B**]. Uncemented reverse total shoulder arthroplasty as initial treatment for comminuted proximal humerus fractures. J Orthop Trauma, July 2019;33(7).

Book Chapter or Full Book Publications:

Noujaim S, Bahoura L, Noujaim D, **Tominna M**. Neurocysticercosis. Neuroradiology: Spectrum and Evolution of Disease, Elsevier Inc, 2019, Chapter 9, p68-80.

Savin JH, Kesselman A, Kiefer RM, Niekamp AS, **Savin MA**. Inferior Vena Cava Filter. Learning Interventional Radiology, Elsevier Inc, 2019, Chapter 19, p195-202.

Abstracts with Associated Research Presentations:

Aqel Z, Al-Katib S, Sutherland E, Saon M, **Farah M, Sokhandon F**. CT imaging of benign esophageal pathology. American Roentgen Ray Society (ARRS) Annual Meeting, Honolulu, HI, May 5-10, 2019.

Asare B, **Savin J, Cheti D**, Loudon NE, **Savin M**. Tumor lysis syndrome after embolization of renal cell carcinoma: Case report and literature review. Symposium on Clinical Interventional Radiology (CIO), Miami Beach, FL, October 11-13, 2019.

***Bhatt M, Tominna M, Wang A, Krishnan A, Silbergleit R**. A tumor, I am not: Non-neoplastic intramedullary spinal cord lesions. American Society of Spine Radiology (ASSR) Annual Meeting, Miami, FL, February 20-24, 2019.

***Bhatt M, Krishnan A**. Getting the most from your multiple sclerosis MRI protocol: A sequence-based approach. 4th Annual Americas Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS), Dallas TX, February 28-March 2, 2019

***Bhatt M, *Memon F, Wilseck J**. Utility of mechanical thrombectomy for isolated M2 bands occlusions. American Society of Neuroradiology (ASNR) 57th Annual Meeting, Boston, MA, May 18-23, 2019.

***Bhatt M, Krishnan A**, Kaleka G, McCormick ME. Case of beta-propeller protein associated neurodegeneration in an adolescent patient. American Society of Neuroradiology (ASNR) 57th Annual Meeting, Boston, MA, May 18-23, 2019.

***Bhatt M, Krishnan A**. Diagnosis and beyond: Utility of imaging across a variety of clinical scenarios encountered in multiple sclerosis. American Society of Neuroradiology (ASNR) 57th Annual Meeting, Boston, MA, May 18-23, 2019.

***Bhatt M, Krishnan A**, Laoprasert P, Arndt D. Evaluation and pre-treatment planning of pediatric epilepsy: A team-based approach. American Society of Neuroradiology (ASNR) 57th Annual Meeting, Boston, MA, May 18-23, 2019.

DIAGNOSTIC RADIOLOGY and MOLECULAR IMAGING

Abstracts with Associated Research Presentations continued:

***Bhatt M, Metz T.** Eliminating radiation and decreasing sedation time for pediatric peripherally inserted central catheter (PICC) placement: A technical review. Society of Pediatric Radiology Annual Meeting, San Francisco, CA, April 30-May 4, 2019.

Chapman J, Colvin R, Piziali D, Campbell J, Al-Katib S. Improving radiation monitoring badge use and return compliance among radiology residents. Michigan Radiologic Society (MRS) Annual Meeting, Traverse City, MI, October 12, 2019.

Colvin R, Dabajeh M, Sutherland E, Aqel Z, Al-Katib S. Iatrogenic esophageal injuries. Radiological Society of North America (RSNA) 102nd Scientific Assembly and Annual Meeting, Chicago, IL, November 29–December 6, 2019.

Colvin R, *Kolderman N, Nandalur K. Transrectal ultrasound and ultrasound-guided biopsy of the prostate: A radiologist's guide. Society of Abdominal Radiology (SAR) Annual Meeting, Orlando, FL, March 17-22, 2019.

Dabajeh M, Colvin R, Al-Katib S, Shetty M. The mysterious mesentery: An imaging review. Radiological Society of North America (RSNA) 102nd Scientific Assembly and Annual Meeting, Chicago, IL, November 29–December 6, 2019.

Farshad S, Halalau A, **Al-Katib S**, George J, Schiopu E. Evaluation of subclinical coronary atherosclerosis in ANCA-Associated Small Vessel Vasculitis (AAVs) compared to matched controls through visual assessment of Coronary Arterial Calcium (CAC) score using non-gated chest computed tomography (CT). American College of Rheumatology (ACR/ARP) Annual Meeting, Atlanta, GA, November 8-13, 2019.

Feraco D, Powell J, *Nail C. Preoperative ultrasound guided botulinum toxin injection for complex ventral wall hernia repair: One tertiary care center's approach. Society of Skeletal Radiology (SSR) Annual Meeting, Scottsdale, AZ, March 2019.

Friedman BJ, **Savin JH, Savin M.** Irreversible electroporation of an internal iliac lymph node. Symposium on Clinical Interventional Radiology (CIO), Miami Beach, FL, October 11-13, 2019.

***Grushky A, *Nail C, Im J, Kirsch A, Aqel Z.** Biopsy of suspicious osseous lesions in patients with known primary malignancy: Rate of alternative diagnosis and complication rate. Society of Skeletal Radiology Annual Meeting (SSR), Scottsdale, AZ, March 2019. **Young Investigator Travel Award.**

***Grushky A, Marcantonio D, Im J.** Musculoskeletal manifestations of diabetes mellitus. Society of Skeletal Radiology Annual Meeting (SSR); American College of Radiology Education Center, Scottsdale, AZ, March 2019. **Award for Best Educational Exhibit.**

***Hasbrook C, Noujaim S.** Paragangliomas of the head and neck: A practical approach to diagnosis and review of detailed anatomy at sites of origin. American Society of Neuroradiology (ASNR) 57th Annual Meeting, Boston, MA, May 18-23, 2019.

DIAGNOSTIC RADIOLOGY and MOLECULAR IMAGING

Abstracts with Associated Research Presentations continued:

Kelsch R, Goncalves L, **Krishnan A**. Multimodality fetal imaging of posterior fossa cystic lesions with postnatal correlation. Society of Pediatric Neuroradiology (ASPNR), New Orleans, LA, January 18-20, 2019; Michigan Radiological Society (MRS) 22nd Annual Resident Conference & Research Forum, Pontiac, MI, February 8, 2019.

Kelsch R, Tarhuni M, Soan M, Fischbein N, **Khan AM**. Transsphenoidal encephalocele: Imaging findings, associations, embryology and clinical presentation. American Society of Head and Neck Radiology (ASHNR), Scottsdale, AZ, October 3, 2019.

Kirsch A, ***Memon F**, **Wang AM**, **Silbergleit R**, **Krishnan A**, **Barry K**, et al. Acute viral encephalitis: Neuroimaging spectrum: Clinical correlation. American Society of Neuroradiology (ASNR) 57th Annual Meeting, Boston, MA, May 18-23, 2019.

Kirsch A, **Tucker R**, Bronsteen R. The elusive non-adnexal ectopic pregnancy: Where it's hiding and how you will find it. Radiological Society of North America (RSNA) 102nd Scientific Assembly and Annual Meeting, Chicago, IL, November 29–December 6, 2019.

***Kolderman N**, **Colvin R**, **Nandalur K**. CTA of transcatheter aortic valve replacement: What the proceduralist wants to know. Society of Abdominal Radiology (SAR) Annual Meeting, Orlando, FL, March 17-22, 2019.

Linkous N, Wright JO, Koueiter D, **Marcantonio D**, Wiater JM, **Wiater B**. Outcomes for reverse total shoulder arthroplasty after failed open reduction internal fixation versus primary reverse total shoulder arthroplasty for proximal humerus fractures. Academy of Orthopaedic Surgeons Annual Meeting (AAOS), Las Vegas, NV, March 12-16, 2019.

Loudon NE, **Savin J**, **Vartanian SA**, Asare B, **Savin M**. Embolization of iliac artery rectum fistula and occlusive nephroureteral stent diversion of ureterorectal fistula. Symposium on Clinical Interventional Radiology (CIO), Miami Beach, FL, October 11-13, 2019.

***Memon F**, **Wilseck J**, ***Bhatt M**, **Kazmierczak C**, **Mick J**, **Krishnan A**, et al, [**Silbergleit R**]. Interspinous/Interlaminar and transosseous approach to intrathecal administration of nusinersen for treatment of spinal muscular atrophy: Initial results. American Society of Pediatric Neuroradiology (ASPNR), New Orleans, LA, January 18-20, 2019.

***Memon F**, **Kirsch A**, **Wang A-M**, **Silbergleit R**, **Khan A M**, **Barry K**, et al, [**Krishnan A**, **Noujaim S**, **Wilseck, J**, **Patel S**, **Tech K**]. Imaging of toxic and metabolic/toxic encephalopathy. American Society of Neuroradiology (ASNR) 57th Annual Meeting, Boston, MA, May 18-23, 2019.

Mettler J, **Shetty M**, **Jafri SZ**. Imaging review of systemic diseases presenting with renal imaging manifestations. Society of Abdominal Radiology Annual Scientific Meeting and Educational Course, Orlando, FL, March 17-22, 2019.

Miller E, **Brown K**, **Basmaji C**, **Shetty M**. Case-based imaging review of internal hernias. Society of Abdominal Radiology (SAR) Annual Meeting, Orlando, FL, March 17-22, 2019.

DIAGNOSTIC RADIOLOGY and MOLECULAR IMAGING

Abstracts with Associated Research Presentations continued:

Miller E, Basmaji C, Shetty M. Using anatomic landmarks to make the diagnosis. Radiological Society of North America (RSNA) 102nd Scientific Assembly and Annual Meeting, Chicago, IL, November 29-December 6, 2019.

Nair G, **Al-Katib S**, Myzuik N, Guerrero T, Solis D, Podolsky R, et al. Lung compliance imaging: A novel imaging parameter to evaluate lung stiffness. American Thoracic Society International Conference, Dallas, TX, May 17-22, 2019.

Nair G, Myzuik N, Guerrero T, **Al-Katib S**, Turner-Lawrence D, Castillo E. Quantitative lung function imaging for detection of parenchymal lung abnormalities Using four-dimensional computed tomography scan. American Thoracic Society (ATS), International Conference, Dallas, TX, May 17-22, 2019.

Pakray A, Al-Katib S, Mettler J. Spontaneous isolated visceral artery dissection analysis of 17 patients. American Society of Emergency Radiology 2019 Annual Meeting (ASER), Scottsdale, AZ, September 11-14, 2019.

Savin JH, Kakish D, **Savin MA, Colvin R, Al-Katib S**, Roberson J. Pressure differences between right and left pulmonary arteries during catheter-directed treatment for pulmonary embolism. International Symposium on Endovascular Therapy (ISET) Annual Meeting, Hollywood, FL, January 27-29, 2019.

Shah A, ***Bhatt M, Barry K, Krishnan A**, Donev K. Rare case of a malignant epithelioid neoplasm involving the cervical spine with metastatic adenopathy presenting as a neck mass. American Society of Spine Radiology (ASSR) Annual Meeting, Miami, FL, February 20-24, 2019.

Sutherland E, Al-Katib S, Aqel Z, Farah M, Doshi S, Jafri Z. Atypical and overlooked non-cardiovascular, non-pulmonary causes of acute chest pain on CT. American Roentgen Ray Society (ARRS) Annual Meeting, Honolulu, HI, May 5-10, 2019.

Tominna M, Dhingra K, **Wilseck J.** The midline clues to diagnosing San Luis Valley Syndrome. American Society of Pediatric Neuroradiology (ASPNR), New Orleans, LA, January 18-20, 2019.

Tominna M, Tech K, Tausch K, Kakish D, et al. Cervical spine CTs ordering in the trauma setting on NEXUS and Canadian C-Spine rules: An institutional experience. Radiological Society of North America (RSNA) 102nd Scientific Assembly and Annual Meeting, Chicago, IL, November 29 – December 6, 2019.

Turner-Lawrence D, Nair G, **Al-Katib S**, et al. Detecting Pulmonary Embolism from Non-Contrast Computed Tomography. Society of Academic Emergency Medicine Annual Meeting, Las Vegas, NV, May 14-17, 2019.

Wu D, Aqel Z, Palka J. Multimodal molecular neuroimaging for the diagnosis of probable corticobasal degeneration (CBD). American College of Nuclear Medicine/Society of Nuclear Medicine Mid-Winter Meeting, Palm Springs, CA, January 17-19, 2019.

DIAGNOSTIC RADIOLOGY and MOLECULAR IMAGING

Abstracts with Associated Research Presentations continued:

Yadavalli S, *Omene O. Imaging evaluation of heel pain. Society of Skeletal Radiology Annual Meeting. Scottsdale, AZ, March 10-13, 2019. **Honorable mention.**

Zintsmaster S, Yadavalli S. Cyst-like lesions around the hip: Imaging and intervention to assess the good, the bad and the ugly. 46th Annual Interventional Skeletal Society Meeting, Vancouver, BC, September 11-13, 2019.

Zintsmaster S, Guzzardo GM, O’Hora KT. Neutropenic enterocolitis: A common complication in an uncommon location. Midwest Society for Pediatrics Research (MSPR) Annual Meeting, Chicago, IL, October 24-25, 2019.

Invited Research Presentations:

Al-Katib S, Amin M, Jafri S. GU case of the day presentation. Society of Abdominal Radiology (SAR) Annual Meeting, Orlando, FL, March 17-22, 2019.

Al-Katib S, Shetty M. RSNA diagnosis live body imaging case challenge. Radiological Society of North America (RSNA) 102nd Scientific Assembly and Annual Meeting, Chicago, IL, November 29–December 6, 2019.

Sokhandon F. GI cases of the day. Society of Abdominal Radiology (SAR) Annual Meeting. Orlando, FL, March 17-22, 2019.

Noujaim S. Case presentation: Early bird session with audience interaction. American Society of Head and Neck Radiology (ASHNR), Scottsdale, AZ, October 3, 2019.

EMERGENCY MEDICINE

Peer-Reviewed Articles:

Abir M, Guetterman TC, Fouche S, et al, **[Swor RA]**. Defining system of care best practices for out-of-hospital cardiac arrest survival. *Circulation*, 2019 November 19;140(Suppl 2):A138.

Adler D, Abar B, Durham, DD, **Bastani A**, Bernstein, S L, Baugh, C W, et al, **[Clark, CL]**. Validation of the emergency severity index (version 4) for the triage of adult emergency department patients with active cancer. *J Emerg Med*, September 2019;57(3):354-361.

Bahl A, Hang B, Brackney A, Joseph S, Karabon P, Mohammad A, et al. Standard long IV catheters versus extended dwell catheters: A randomized comparison of ultrasound-guided catheter survival. *Am J Emerg Med*, April 2019;37(4):715-721.

Bahl A, Hixson CC. July phenomenon impacts efficiency of emergency care. *West J Emerg Med*, 2019 January;20(1),157-162.

Bahl A, Karabon P, Chu D. Comparison of venous thrombosis complications in midlines versus peripherally inserted central catheters: Are midlines the safer option? *Clin Appl Thromb Hemost*, 2019 January-December;25.

Bastani A, Su E, Adler DH, Baugh C, Caterino J M, **Clark CL**, et al. Comparison of 30-day serious adverse clinical events for elderly patients presenting to the Emergency Department with near-syncope versus syncope. *Ann Emerg Med*, 2019 March;73(3):274-280.

Baugh CW, Sun BC, **Bastani A, Clark CL**. Variation in diagnostic testing for older patients with syncope in the emergency department. *Am J Emerg Med*, 2019 May;37(5):810-816.

Beigel JH, Aga E, Elie-Turenne MC, Cho J, Tebas P, **Clark CL**. Anti-influenza immune plasma for the treatment of patients with severe influenza A: A randomised, double-blind, phase 3 trial. *Lancet Respir Med*, 2019 November;7(11):941-950.

Bernett M, **Fisher R**, Devlin W, **Berger D, Swor RA**. Utility of abnormal head computed tomography in predicting outcome in out of hospital cardiac arrest victims resuscitated and subsequently placed on targeted temperature management. *Circulation*, 2019 November 19; 140 (Suppl 2):A407.

Berger DA, Chen N, Miller JB, **Swor RA**. Variation of post arrest survival to discharge and cerebral performance category 1/2 in state of Michigan. *Circulation*, 2019 November 19; 140 (Suppl 2):A430.

Bloomington R, Goldstein J, McNally V, **Berger D, Swor R**, Rothchild D, et al. Length of stay reduction for pulmonary embolism patients with PERT-driven risk stratification. *Critical Care Medicine Society of Critical Care Medicine*, 2019 January 1;47(1):83.

Burla MJ, Sawyer KN, Swor RA, Berger DA. Resuscitation rotation: A novel emergency medicine rotation to augment resuscitative training. *Journal of Education and Training in Emergency Medicine*, 2019 October 4(4):C151-94.

EMERGENCY MEDICINE

Peer-Reviewed Articles continued:

Brackney A, Berger DA, Shook D. Can bedside cardiac ultrasound better predict the need for escalation of care compared to computed tomography in patients with pulmonary embolisms? *Annals of Emergency Medicine*. 2019 October 1;74(4):S145.

Caterino JM, Adler D, Durham DD, Yeung SJ, Hudson MF, **Bastani A**, et al, **[Swor RA]**. Analysis of diagnoses, symptoms, medications, and admissions among patients with cancer presenting to Emergency Departments. *JAMA Netw Open*, 2019 March 1;2(3).

Chang AM, Hollander JE, Su E, Weiss RE, Yagapen AN, Malveau SE, et al, **[Bastani A, Clark CL]**. Recurrent syncope is not an independent risk predictor for future syncopal events or adverse outcomes. *Am J Emerg Med*, 2019 May;37(5):869-872.

Clark CL, Gibson TA, Weiss RE, Yagapen AN, Malveau SE, Adler DH, et al, **[Bastani A]**. Do high-sensitivity troponin and natriuretic peptide predict death or serious cardiac outcomes after syncope? *Acad Emerg Med*, 2019 May;26(5):528-538.

Elegante MF, Hamera JA, Xiao J, **Berger DA**. Operative hysteroscopy intravascular absorption syndrome causing hyponatremia with associated cerebral and pulmonary edema. *Clinical Practice and Cases in Emergency Medicine*, 2019 August;3(3):252-55.

Jung D. Gender-based harassment of emergency medicine trainees: What faculty educators need to know. *AEM Educ Train*, 2019 July 16;4(1):7-80.

Jurvis A, Burla MJ. Left ventricular non-compaction: An unusual presentation with supraventricular tachycardia in the Emergency Department. *Am J Emerg Med*, 2019 October; 37(10):1990.

Mauck, MC, Hu J, Sefton C, **Swor RA**, Peak DA, Jones, JS, et al. Obesity increases the risk of chronic pain development after motor vehicle collision. *Pain*, 2019 March;160(3):670-675.

Moskowitz A, Rittenberger J, Scranton PA, **Swor RA**, et al. Neuromuscular blockade for post-cardiac arrest care: Results of a randomized controlled trial. *Circulation*, 2019 December 17;140(25):E1007.

McQuivey KS, Christopher ZK, Chung AS, Makovicka J, **Guettler J, Levasseur K.** Implementing the lever sign in the emergency department: Does it assist in acute anterior cruciate ligament rupture diagnosis? A pilot study. *J Emerg Med*, 2019 December;57(6):805-811.

Price J, Xiao J, Tausch K, Hang B, **Bahl A.** Single versus double tourniquet technique for ultrasound-guided venous catheter placement. *Western Journal of Emergency Medicine*, 2019 September;20(5):719.

Probst MA, Su E, Weiss RE, Yagapen AN, Malveau SE, Adler DH, et al, **[Bastani A, Clark CL]**. Clinical benefit of hospitalization for older adults with unexplained syncope: A propensity-matched analysis. *Ann Emerg Med*, 2019 August;74(2):260-269.

EMERGENCY MEDICINE

Peer-Reviewed Articles continued:

Rosario JM, Patel F, **Levasseur K**, Adams L. Kawasaki at the extremes of age: Thinking outside the box. *Pediatr Emerg Care*, 2019 December;35(12):e229-e231.

Shinthia N, Otero R, Mansour L, Miller M, **Todd BR**. The impact of electronic medical record alerts on emergency physician workflow and clinical decision making. *Annals of Emergency Medicine*, 2019 October 1;74(4):S35-6.

Shievitz M, Rae R. Unintentional caffeine overdose causing rhabdomyolysis, AKD and hypokalemia: MCEP resident case report. *MCEP News & Views*, 2019 January-February;37(1):8-9.

Talia N, Miller M, Mishkoor A, Chen NW, **Otero R, Swor R**. 85 frequency of early rapid response team activation in Emergency Department patients with missing vital signs. *Annals of Emergency Medicine*, 2019 October 1;74(4):S33.

Thiruganasambandamoorthy V, Sivilotti MLA, Rowe BH, McRae AD, Mukarram M, Malveau S, et al, [**Bastani A, Clark CL**]. Prevalence of pulmonary embolism among Emergency Department patients with syncope: A multicenter prospective cohort study. *Ann Emerg Med*, 2019 May;73(5):500-510.

Turner-Lawrence D, Hang BS, Shah P, Levasseur K. An emergency medicine milestone-based simulation curriculum: Acute ischemic stroke. *MedEdPortal*, 2019 June;18;15:10829.

Turner-Lawrence D, Todd BR. Monthly progression of emergency medicine resident efficiency: What can we expect of our residents throughout training? *J Emerg Med*, 2019 July; 57(1):77-81.

Turner-Lawrence D, Nair G, Myziuk N, Al-Katib S, **Swor RA**, Guerrero T, **Castillo E**. Detecting pulmonary embolism from non-contrast computed tomography. *SAEM/Annals Emergency Medicine*, May 2019.

Tram J, Pressman A, Chen N, **Berger D**, Miller JB, Welch RD, et al, [**Otero R, Swor RA**]. Ventricular assist device association in improving outcomes in patients resuscitated from out of hospital cardiac arrest. *Circulation*, 2019 November 19;140(Suppl 2):A367.

Valencia P, **Turner-Lawrence D**. The gravid watermelon: An inexpensive perimortem caesarean section model. *JETem*, 2019 April;4(2):8-12.

White JL, Chang AM, Hollander JE, Su E, Weiss RE, Yagapen AN, et al, [**Bastani A, Clark CL**]. QTc prolongation as a marker of 30-day serious outcomes in older patients with syncope presenting to the emergency department. *Am J Emerg Med*, 2019 April;37(4):685-689.

White JL, Hollander JE, Chang AM, Nishijima DK, Lin AL, Su E, et al, [**Bastani A, Clark CL**]. Orthostatic vital signs do not predict 30-day serious outcomes in older Emergency Department patients with syncope: A multicenter observational study. *Am J Emerg Med*, 2019, December;37(12):2215-2223.

EMERGENCY MEDICINE

Abstracts with Associated Research Presentations:

Bastani A. A novel triage tool to improve identification of posterior circulation cerebrovascular events. SAEM19, Las Vegas, NV, May 14-17, 2019; ACEP 2019.

Clark CL. Efficacy and Safety with Andexanet alfa in traumatic intracranial hemorrhage: An ANNEXA-4 substudy. SAEM regional meeting, Southfield, MI, 2019; ANNEXA study group ACEP Scientific Assembly, Denver, CO, October 2019.

Clark CL. Reversal and repletion strategies related to oral anticoagulation in US Emergency Departments, SAEM Annual Meeting, San Diego, CA, May 2019.

Epley CT, Purekar M, Chen NW, Sawyer KN, Burla MJ, Berger DA. Change in resuscitation-specific confidence and anxiety levels in emergency medicine residents from a novel resuscitation and research rotation. SAEM Midwest Regional Meeting, Southfield, MI, September 2019.

Erhman R, Levy P, Sherwin R, Favot M, **Harrison N.** An early echocardiographic findings in septic cardiomyopathy: A pilot study. SAEM19, Las Vegas, NV, May 14-17, 2019.

Hamera J, **Talia N, Sawyer KN, Berger DA.** Performance of the simplified pulmonary embolism severity index at predicting thrombolysis for PE. SAEM Midwest Regional Meeting, Southfield, MI, September 2019.

Harrison N, Ball M, Graf D, Miller M, Klausner M, Otero R. Physicians are inaccurate in predicting blunt trauma severity prior to imaging results. SAEM19, Las Vegas, NV, May 14-17, 2019.

Harrison N, Favot M, Erhman R, Levy P. Right ventricular dysfunction on arrival predicts acute heart failure severity and recidivism. AEM19, Las Vegas, NV, May 14-17, 2019.

Havan M, Miler MD, France J, **Otero R, Swor RA, Paxton JH, et al.** Intraosseous drug administration is associated with lower survival in out of hospital cardiac arrest. SAEM19, Las Vegas, NV, May 14-17, 2019.

Kocher K, **Levasseur K.** Emergency care quality imaging benchmarks in a statewide collaborative: Estimated excess and associated spending. SAEM19, Las Vegas, NV, May 14-17, 2019.

Maloy JD, Chen NW, Qu L, Merwine SJ, Ziadeh J, Berger DA. Opioid prescribing habits in the acute emergency department visit: Before and after implementation of departmental prescribing guidelines. Annals of Emergency Medicine, 74(4):S75; ACEP National Meeting, Denver, CO, October 27-30, 2019; SAEM Regional Meeting, Southfield, MI, September 2019.

McLean S, An X, House S, Beaudoin F, Musey P, Hendry P, et al, [**Swor R**]. Improved trauma survivor phenotypes are critical for better biomarkers, prediction tools, and treatments: Initial results from the AURORA study. SAEM19, Las Vegas, NV, May 14-17, 2019.

EMERGENCY MEDICINE

Abstracts with Associated Research Presentations continued:

Mroue KM. Which patients presenting to the emergency department in atrial fibrillation with rapid ventricular response require a chest X-ray? SAEM regional meeting, Southfield, MI, September, 2019.

Price J, Bahl A. Single versus double tourniquet technique for ultrasound-guided venous catheter placement. National SAEM Meeting, Seattle, WA, May 2019.

Price J, Bahl A. Ultra-long versus standard long peripheral intravenous catheters: A randomized controlled trial of ultrasound-guided catheter survival. National ACEP Meeting, October 2019. Denver, CO; Midwest Regional SAEM Meeting, September 2019, Southfield, MI.

Pollack C, Peacock F, Jahromi B, Bernstein R, **Clark C**, Douketis J, et al. Reversal and repletion strategies related to oral anticoagulation in US emergency departments. SAEM19, Las Vegas, NV, May 14-17, 2019.

Salhi, R, **Swor RA.** Exploring the role of police in out-of-hospital cardiac arrest response. SAEM19, Las Vegas, NV, May 2019.

Shinthia N. The impact of electronic medical record alerts on emergency physician workflow and clinical decision making. SAEM regional meeting, Southfield, MI, 2019.

Swor RA. Statewide variation in post cardiac arrest hospital care in Michigan. SAEM19, Las Vegas, NV, May 14-17, 2019.

Tausch K, Bahl A. Single versus double tourniquet technique for ultrasound-guided venous catheter placement. Western Regional SAEM Meeting, Napa, CA, March 2019.

Non Peer-Reviewed Research Publications:

Alafyouni M, Huang D, Kleiman S, Jones S. Acute bilateral ischemic stroke in a young adult without risk factors. The University of Toledo Journal of Medical Sciences, 2019;6;29-31.

Ozcan A, Kahale K, Nguyen D. An 8-month old girl with vesicular rash. Glob Pediatr Health, 2019;6.

Porto A, Jones SC, **Levasseur K.** What's the Connection between Fever and Atraumatic Leg Pain. Emergency Medicine News, 2019 June 18;41(6B).

FAMILY MEDICINE

Peer-Reviewed Articles:

Dallo FJ, Ruterbusch JJ, McCullough JR, Sreedhar S, Schwartz K, **Mulhem E**. Diabetes management among Arab Americans who sought care at a large metropolitan hospital system in Michigan. *J Immigr Minor Health*, June 2019;21(3):490-496.

Dregoes D, Kelley R, **Lick D**. An unusual case of urinothorax after percutaneous nephrostolithotomy. *J Family Med Prim Care*, 2019;8:2155-7.

LePlatte D, Marasco S, Deneke DE, **Warnick SJ**. Diagnosis of neurosyphilis in a collaborative care (CoCM) setting. *Prim Care Companion CNS Discord*, August 1, 2019;21(4).

Villarreal CM, **Yedavally S, Mulhem E**. Vegetable fibre in an infected ovarian dermoid cyst. *BMJ Case Reports*, 2019;12(3).

Yedavally-Yellayi S, Ho AM, Patalinghug EM. Update on osteoporosis. *Prim Car*, March 2019;46(1):175-190.

Invited Research Presentations:

Braekevelt K, Vendittelli B, Fett J, Priziola J, **Kline E**. Creation, implementation, and evaluation of pharmacist-led Medicare Part D open enrollment events. Great Lakes Pharmacy Residency Conference, West Lafayette, IN, April 2019; Southeastern Michigan Society of Health System Pharmacists, Livonia, MI, May 2019; Ohio Pharmacy Residency Conference, Ada, OH, May 2019. **Toby Clark Residency Research Award.**

Brazill K, **Warnick SJ**, White C. Cure for curse? The latest evidence behind cannabis use and mental health. Forum for Behavioral Science in Family Medicine, Chicago, IL, September 2019.

Fonseka G, Mehdi L, **Kowalkowski J, Tucker P**. Targeting heart failure readmissions using patient specific risk factors. Michigan Family Medicine Research Day XLII, Howell, MI, May 2019.

Gallimore C, **Kline E**. Pursuit of the triple aim through interprofessional collaboration with pharmacists as practitioners and educators: Lessons learned from a national survey. 2nd Annual Conference of the Society for Teachers of Family Medicine, Toronto, ON, April 2019.

Gammouh S, Ottoni K, **Mulhem E, Patalinghug E**. EPIC alert to improve opioid safety. Michigan Family Medicine Research Day XLII, Howell, MI, May 2019.

Greisbach S, **Lick D**. From residency to faculty: Explore the options for your future. AAFP National Conference of Family Medicine Residents and Students, Kansas City, MO, July 2019.

Kowalkowski J, Bognanno E, McClowry R, Jafry S. Implementation of an integrative medicine-based resident wellness curriculum in a community focused family medicine residency. 52nd Annual Conference of the Society for Teachers of Family Medicine, Toronto, ON, April 2019.

FAMILY MEDICINE

Invited Research Presentations continued:

Lackman-Zeman L, Wilson S, Reznar M, Ashkar A, Perozich A, Goetting R. Completing a survey can induce healthy behavior changes: Implications for prevention and population health. Collaborative Family Healthcare Association 21st Annual Conference, Denver, CO, October 2019; 2nd Annual MI Health Psychology Symposium, Howell, MI, November 2019; Collaborative Family Healthcare Association 21st Annual Conference, Denver, CO, October 2019.

Lick D, Graham T, Young C, Tiemstra J. Training our educators: Using the STFM residency faculty fundamentals certificate program. American Academy of Family Physicians Program Directors Workshop, Kansas City, MO, April 2019.

Lick D. Length of stay, hospital readmission rates, and mortality for heart failure among patients of middle-eastern origin compared to non-middle eastern whites in Southeast Michigan. Michigan Family Medicine Research Day XLII, Howell, MI, May 2019.

McCalmont K, Afek P, Jarrett J, Kolahi A, **Lick D,** Medrano M, et al. Faculty development: Integrating e-learning modules with interactive multi-residency group collaboration. 52nd Annual Conference of the Society of Teachers of Family Medicine, Toronto, ON, April 2019.

McClowry R, Kowalkowski J, Bognanno E, Shajahan A, Tucker P. Transforming a traditional suburban family medicine residency into a community medicine program with an urban underserved focus. 52nd Annual Conference of the Society of Teachers of Family Medicine, Toronto, ON, April 2019.

Patalinghug E. Pre-operative evaluation. Beaumont Health Primary Care Conference, Troy, MI, April 2019.

Patalinghug E, Mulhem E, Gammouh S, Ottoni K. EPIC alert to improve opioid prescription safety – a quality improvement project. Midwest Pain Society, Chicago IL, October 2019.

Perozich A, Reznar M, **Wilson S, Zeman L,** Vogel H. Healthy eating and activity assessment. Oakland University William Beaumont School of Medicine Embark Event, Auburn Hills, MI, March 2019.

Shammami A, Kline E. Comprehensive, interprofessional substance use disorder (SUD) treatment initiative in a family medicine residency program. Midwest Pain Society, Chicago IL, October 2019.

Tyler A, **McClowry R.** An LGBTQ+ primer for ethics consultants and other health professionals in providing compassionate and competent care. Beaumont Health Clinical Ethics Education Group, Beaumont Health, Grosse Pointe, MI, June 2019.

Vogel H, **Wilson S,** Reznar M, **Zeman L.** Prevalence of chronic kidney disease in patients that report participation in resistance and cardiovascular training in a suburban family medical center. Michigan Family Medicine Research Day XLII, Howell, MI, May 2019.

FAMILY MEDICINE

Invited Research Presentations continued:

Warnick SJ. Update on evidence-based treatment of depression. Beaumont Grosse Pointe Internal Medicine/Family Medicine Grand Rounds, Grosse Pointe, MI, August 2019.

Warnick SJ, Brazill K, White C. Collaborative care: Expansion and education. Forum for Behavioral Science in Family Medicine, Chicago, IL, September 2019.

White C, Brazill K, **Warnick SJ.** Genius genes: A helpful guide to understand and interpret psychopharmacogenetic tests. Forum for Behavioral Science in Family Medicine, Chicago, IL, September 2019.

Non Peer-Reviewed Research Publications:

Mulhem E. What are the benefits and harms of perioperative local anesthetic application via a nasal pack for reducing pain following septal surgery? Cochrane Clinical Answers, 2019.

Mulhem E. How does combined acclidinium/formoterol compare with acclidinium or formoterol monotherapy for people with chronic obstructive pulmonary disease (COPD)? Cochrane Clinical Answers, 2019.

Mulhem E. What are the benefits and harms of hearing aids for adults with mild to moderate hearing loss? Cochrane Clinical Answers, 2019.

Mulhem E. What are the effects of interventions to improve inhaler technique in children with asthma? Cochrane Clinical Answers, 2019.

Mulhem E. What are the effects of prophylactic antibiotics for people with chronic obstructive pulmonary disease (COPD)? Cochrane Clinical Answers, 2019.

Mulhem E. For adults with asthma who are taking inhaled steroids, what serious adverse events are associated with formoterol? Cochrane Clinical Answers, 2019.

Mulhem E. For children and adolescents with mild to moderate asthma who are taking inhaled steroids, what serious adverse events are associated with formoterol? Cochrane Clinical Answers, 2019.

Mulhem E. How do buffered solutions compare with 0.9% saline for critically ill people requiring intravenous fluid therapy? Cochrane Clinical Answers, 2019.

Mulhem E. How does a combined inhaler with once-daily long-acting beta2-agonist (LABA) plus a long-acting muscarinic antagonist (LAMA) compare with placebo for adults with chronic obstructive pulmonary disease (COPD)? Cochrane Clinical Answers, 2019.

Mulhem E. What are the effects of interventions to improve inhaler technique for adults with asthma? Cochrane Clinical Answers, 2019.

FAMILY MEDICINE

Non Peer-Reviewed Research Publications continued:

Mulhem E. What are the effects of pharmacological agents for adults with acute respiratory distress syndrome (ARDS)? Cochrane Clinical Answers, 2019.

Shammami A, Kline E, Loush M. MI Quality Improvement Consortium (MQIC): Guideline for screening, diagnosis, and referral for substance use disorders, 2019.

SUBSPECIALITY DIVISIONS 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

PUMONARY and CRITICAL CARE MEDICINE

ALLERGY and IMMUNOLOGY

Abstracts with Associated Research Presentations:

Lauter CB, Aneese A, Figueroa Rodriguez F, Eilender L. Severe CD4 lymphocytopenia in patients with multiple sclerosis treated with fingolimod. American Academy of Allergy, Asthma and Immunology (AAAAI), San Francisco, CA, February 24, 2019.

Invited Research Presentations:

Lauter, CB. Park Willis Lecture: What to do with antibiotic allergy and desensitization strategies. American College of Physicians (ACP) Annual Fall Scientific Meeting, Grand Rapids, Michigan, October 12, 2019.

DERMATOLOGY

Peer-Reviewed Articles:

Ward RE, **Sklar LR**, Eisen DB. Surgical and noninvasive modalities for scar revision. *Dermatol Clin*, 2019;37(3), 375-386.

ENDOCRINOLOGY

Peer-Reviewed Articles:

Grunberger G, Rosenfeld CR, Bode BW, Abbott SD, Nikkel C, Shi L, et al. Effectiveness of V-Go((R)) for patients with type 2 diabetes in a real-world setting: A prospective observational study. *Drugs Real World Outcomes*, 2019 December 12.

Šoupal J, Petruzelkova L, **Grunberger G**, Haskova A, Flekac M, Matoulek M, et al. Glycemic outcomes in adults with T1D are impacted more by continuous glucose monitoring than by insulin delivery method: 3 years of follow-up from the COMISAIR study, *Diabetes Care*, 2019 September 17.

GASTROENTEROLOGY and HEPATOLOGY

Peer Reviewed Articles:

Aneese A, Naser J, Halalau A. A prospective mixed-methods study evaluating the integration of an evidence based medicine curriculum into an internal medicine residency program. *Adv Med Educ Pract*, 2019;10:533–546.

Cappell MS, Friedel DM. Stricter national standards are required for credentialing of endoscopic-retrograde-cholangiopancreatography in the United States. *World J Gastroenterol*, 2019 July 21;25(27):3468-3483.

Cappell MS, Stavropoulos SN, Friedel DM. Updated systematic review of achalasia, with a focus on POEM therapy. *Dig Dis Sci*, 2019 August 27.

Cappell MS, Gjeorgjievski M, Orosey M. Case report of novel endoscopic findings in SMA syndrome demonstrated by video endoscopy: Visibly pulsating, band-like, compression in third portion of duodenum, with the pulsations corresponding one-for-one with the radial pulse & EKG cycle. *Dig Dis Sci*, 2019 June; 64(6):1715-1718.

Cappell MS, Gjeorgjievski M. Gastroenterologist successfully extracting at EGD a blunt, semi-rigid foreign body impacted at the UES. *Minerva Gastroenterol Dietol*, 2019 September;65(3): 239-241.

Desai T, Edhi AI, Hakim S. Eradicating H. pylori. *Am J Gastroenterol* 2019, December; 114(12):1827-1828.

Edhi A, Gjeorgjievski M, Kulesza G, Cappell MS. Esophagopericardial fistula from thermal injury after local abnormal ventricular activity arrhythmia ablation therapy: Endoscopic findings and therapy. *Gastrointest Endosc*, 2019 September 24.

Hakim S, Orosey M, Edhi A, Amin M, **Cappell MS.** Complete response for 36 months after BRAF & MEK inhibitor therapy for locally advanced gallbladder melanoma. *Minerva Gastroenterol Dietol*, 2019 September;65(3):243-246.

Imam Z, **Cappell MS.** Increased average number of medical publications per interviewee from 2009 to 2018: A study of 100 interviewees to an academic gastroenterology fellowship program. *BMC Med Educ*, 2019 November 27;19(1):440.

John J, Garg L, Orosey M, **Desai T**, Haines DE, Wong WS. The effect of esophageal cooling on esophageal injury during radiofrequency catheter ablation of atrial fibrillation. *J Interv Card Electrophysiol*, 2019 June 1.

Le A, Amin M, **Cappell MS.** Case report of a proposed, novel, endoscopic “whitehead pimple” sign of ectopic esophageal sebaceous glands based on their mimicking the dermatologic & histopathologic characteristics of cutaneous whitehead pimples/closed comedones. *Dig Dis Sci*, 2019 64(7):2049-2053.

Tasleem SH, **Cappell MS.** Voriconazole-Induced hepatotoxicity presenting with severe hepatic encephalopathy after liver transplantation. *CG Case Rep J*, 2019 February 25;6(3):1-4.

GASTROENTEROLOGY and HEPATOLOGY

Peer-Reviewed Articles:

Shams C, **Cappell MS**. Lymphocytic esophagitis: A single tertiary center's experience describing incidence, presentation and pathology of this emerging clinical entity. Digestive Disease Week 2019.

Shams C, **Cappell MS**. Dysphagia after anterior cervical spine fusion from migration of orthopedic metal hardware: Three cases among 84,500 EGDs during 12 years at a large university hospital. Digestive Disease Week 2019.

GENERAL INTERNAL MEDICINE

Peer-Reviewed Articles:

Abbas A, **Mando R**, Hanzel G, Gallagher M, Safian R, Hanson I, et al, [**Almany S**]. Invasive versus echocardiographic evaluation of transvalvular gradients immediately post-transcatheter aortic valve replacement. *Cir Cardiovasc Interv*, 2019 July;12(7).

***Adhikari A**, Chisti M, ***Bastola S**, ***KC O**. Rare case of catastrophic antiphospholipid syndrome with spontaneous intracranial hemorrhage. *BMJ Case Rep*, 2019 March 20;12(3).

Aneese A, Nasr J, **Halalau A**. A prospective mixed-methods study evaluating the integration of an evidence based medicine curriculum into an internal medicine residency program. *Advances in Medical Education and Practice*, 2019 July 22;10:533-546.

Cret N, Halalau M, Rezvani S, **Halalau A**. Posterior reversible encephalopathy syndrome caused by Fioricet (Butalbital-Acetaminophen-Caffeine). *Case Rep Med*, 2019 July 11.

Dai Y, Cheng Z, ***Pang Y**, Jiao Y, Qian T, et al. Prognostic value of the FUT family in acute myeloid leukemia. *Cancer Gene Ther*, 2019 June 17.

Donisan T, **Balanescu D**, Palaskas N, Lopez-Mattei J, Karimzad K, Kim P, et al. Cardiac interventional procedures in cardio-oncology patients. *Cardiology Clinics*, 2019;37(4):469-486.

Edupuganti S, **Bushman J**, Maditz R, **Kaminoulu P**, **Halalau A**. A quality improvement project to increase compliance with diabetes measures in an academic outpatient setting. *Clin Diabetes Endocrinol*. 2019 July 23;5:1.

Farshad S, **Figueroa Rodriguez F**, **Halalau A**, Skender J, Rasmussen C, Pevzner M. The central nervous system effects and mimicry of common variable immunodeficiency (CVID): A case report with literature review. *Case Rep Rheumatol*, 2019 September 29;7623643.

Farshad S, **Halalau A**, Al-Katib S, George J, Schiopu E. Evaluation of subclinical coronary atherosclerosis in ANCA-associated small vessel vasculitides (AAVs) compared to matched controls through visual assessment of coronary arterial calcium (CAC) score using non-gated chest computed tomography (CT). *Arthritis & Rheumatology*, 2019 November;71(10).

Farshad S, Kanaan C, **Savedchuk S**, **Karmo D**, **Halalau A**, Swami A. Systemic lupus erythematosus (SLE) with acute nephritis, antineutrophil cytoplasmic antibody – (ANCA-) associated vasculitis and thrombotic thrombocytopenic purpura (TTP): A rare case report with literature review. *Case Rep Rheumatol*, 2019 December 14;8750306.

Figueroa Rodriguez F, **Faieta A**, **Davila F**. Mitral valve endocarditis with perforation from a urinary source. *Case Rep Cardiol*, 2019 June 9;5496851.

Figueroa Rodriguez F, Uddin A, Nasr J. Primary pulmonary malignant melanoma found while evaluation new onset cough: A case presentation and literature review. *Case Rep Pulmonol*, 2019 April 10;3867831.

GENERAL INTERNAL MEDICINE

Peer-Reviewed Articles continued:

Gautam M, **Kaur M**, Jagtap P, Krayem B. Levomilnacipran: More of the same? Prim Care Companion CNS Disord, 2019 September 5;21(5).

Gupta K, **Kakar T**. Hazardous chemical emergencies and poisonings. N Eng J Med, 2019 July 25;381(4):392.

Gupta K, **Kakar T**, Gupta A, Singh A, Gharpure N, et al. Role of left ventricle deformation analysis in stress echocardiography for significant coronary artery disease detection: A diagnostic study meta-analysis. Echocardiography, 2019 June;36(6):1084-1094.

Gupta K, Khuttan A, **Kakar T**. Heatstroke. N Engl J Med. 2019 September 19;381(12):1186.

Hu N, Cheng Z, ***Pang Y**, Zhao H, et al. High expression of MiR-98 is a good prognostic factor in acute myeloid leukemia patients treated with chemotherapy alone. J Cancer, 2019 January 1;10(1):178-185.

Imam Z, Cappell M. Increased average number of medical publications per interviewee from 2009 to 2018: a study of 100 interviewees to an academic gastroenterology fellowship program. BMC Med Educ, 2019 November 4;19(1):402.

Imam Z, Cappell M. Correction to: Increased average number of medical publications per interviewee from 2009 to 2018: A study of 100 interviewees to an academic gastroenterology fellowship program. BMC Med Educ, 2019 November 27;19(1):440.

Imam Z, Khasawneh M, Jomaa D, Iftikhar H, Sayedahmad Z. Drug induced liver injury attributed to a curcumin supplement. Case Rep Gastrointest Med, 2019 October 20.

Imam Z, Simons-Linares R. Trans-hepatic Insertion of Percutaneous Endoscopic Gastrostomy Tube: Case Report and Review of the Literature. Case Reports in Gastrointestinal Medicine, 2019 April.

Ionescu F, Anusim N, Vonda DN, Stender M. When leukocytosis isn't leukemia. BMJ Case Rep, 2019 May 24;12(5).

Jentzer JC, Anavekar NS, Mankad SV, **Khasawneh M**, White RD, Barsness G, et al. Challenges in the assessment of diastolic function after cardiac arrest. J Crit Care, 2019 December;54:284-285.

Lauter C, Aneese A, **Figueroa F**, Eilender L. Severe CD4 lymphocytopenia in patients with multiple sclerosis treated with fingolimod. A case report. Journal of Allergy and Clinical Immunology, 2019 February 1;143(2).

Liu My, Yang Y, Zhang L, Pu L, ***Hafeez A**. Potential predictors for mental stress-induced myocardial ischemia in patients with coronary artery disease. Clin Med J (Engl), 2019 June 20; 32(12):1390-1399.

GENERAL INTERNAL MEDICINE

Peer-Reviewed Articles continued:

Liu Y, Cheng Z, Li Q, ***Pang Y**. Prognostic significance of the PANK family expression in acute myeloid leukemia. *Ann Transl Med*, 2019 June 7;(12):261.

Liu Y, Cheng Z, ***Pang Y**, Cui L. Role of microRNAs, circRNAs and long noncoding RNAs in acute myeloid leukemia. *J Hematol Oncol*, 2019 May 24;12(1):51.

Liu Y, Lu R, Cui W, ***Pang Y**, Liu C, High IFITM3 expression predicts adverse prognosis in acute myeloid leukemia. *Cancer Gene Ther*, 2019 March 29.

Mando R, Goel A, Habash F, Saad M, Ayoub K, Vallurupallis S, et al. Peripherally embolizing aortic thrombus: The work-up, management and outcome of primary aortic thrombus. *Case Rep Cardiol*, 2019 July 2.

Mando R, **Sigua-Arce P**, Spencer L, **Halalau A**. Slippery stents: A case report and review of the literature describing patients with May-Turner syndrome that experienced stent migration. *Case Rep Vasc Med*, 2019 March 5.

***Quiroz E**, Aldoss I, Pullarkat V, Rego E, Marcucci G Douer D. The emerging story of acute lymphoblastic leukemia among the Latin American population—biological and clinical implications. *Blood Rev*, 2019 January;33:98-105.

***Said A**, ***Keeney S**, **Halalau A**. Concomitant use of direct oral anticoagulants and aspirin for cardiovascular disease prevention in atrial fibrillation and flutter. *Journal of the American College of Cardiology*, 2019 March;73(9).

Willner S, **Imam Z**, Hader I. Rothia dentocariosa. Endocarditis in an unsuspecting host: A case report and literature review. *Case Rep Cardiol*, 2019 January 23.

Yadav S, **Hartkop S**, Cardennas P, Ladkany R, **Halalau A**, **Shoichet S**, et al, [***Maddens M**, Zakalik D]. Utilization of a breast cancer risk assessment tool by internal medicine residents in a primary care clinic: Impact of an educational program. *BMC Cancer*, 2019 March;19(1):228.

Abstracts with Associated Research Presentations:

***Adhikari A**, **Thapa S**, **Khanal D**. Catastrophic antiphospholipid syndrome complicated by intracranial hemorrhage. National American College of Physicians (ACP), Philadelphia, PA, April 11-13, 2019.

Aguinaga S, Johnson P. Disseminated tuberculosis in a renal transplant patient with negative screening. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Allen O, Nowatzke R, Dalal B. Anaphylaxis following intravenous levetiracetam diagnosed by tryptase in the ICU. *Chest* 2019, New Orleans, LA, October 19-23, 2019.

GENERAL INTERNAL MEDICINE

Abstracts with Associated Research Presentations continued:

Allen O, Savedchuk S, Khaled Z, Hafeez A, Karnib S, Zarouk S. Pericardial effusion in a kidney transplant patient with autosomal dominant polycystic kidney disease. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Anusim N, **Ionescu F,** Jaiyesimi I. Demographics and survival in atypical chronic myeloid leukemia: SEER data analysis. Society of Hematology Oncology Annual Meeting, Houston, TX, September 11-14, 2019.

Anusim N, **Ionescu F,** Jaiyesimi I. Demographics and survival in malignant pleural mesothelioma: Analysis of SEER data. IASLC North American Conference on Lung Cancer, Chicago, IL, October 10-12, 2019.

Anusim N, **Ionescu F,** Jaiyesimi I. Demographics and survival in metastatic inflammatory breast cancer: An analysis of SEER data. San Antonio Breast Cancer Symposium, San Antonio, TX, December 10-14, 2019.

Anusim N, **Ionescu F,** Jaiyesimi I. Demographics and survival in plasma cell leukemia (SEER data analysis). Lymphoma and Myeloma Congress, New York, NY, October 23-26, 2019.

Anusim A, **Ionescu F,** Jindal V, Gupta R, Jaiyesimi I, Gaikazian S. Outcome of morbidly obese patients with acute venous thromboembolism managed with direct oral anticoagulants. American Society of Hematology Annual Meeting, Orlando, FL, December 7-10, 2019.

Anusim A, **Ionescu F,** Konde A, Jindal V, Gupta R, Huben M, et al. Outcomes in heparin-induced thrombocytopenia managed with direct oral anticoagulants. American Society of Hematology Annual Meeting, Orlando, FL, December 7-10, 2019.

Bushman J. A quality improvement project to increase compliance with diabetes measures in an academic outpatient setting. Society of General Internal Medicine, Washington, DC, May 8-11, 2019.

Bushman J, Banka A, Ospina L. Long-term follow-up of patients with macroprolactinomas. National American College of Physicians (ACP), Philadelphia, PA, April 11-13, 2019.

Bushman J, Halalau A. Effect of long-term proton pump inhibitor use on glycemic control in patients with type two diabetes. American College of Physicians (ACP) Resident's Day, Sterling Heights, MI, May 3, 2019, **First place winner;** American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019, **First place winner.**

Edupunganti S, **Halalau A.** A quality improvement project to increase compliance with diabetes measures in an academic outpatient setting. American College of Physicians – National Meeting, Philadelphia, PA, April 11-13, 2019.

Gupta K, **Langnas E, Khaled Z, Halalau A.** Assessment of guideline recommended anti-coagulation rates for atrial fibrillation in an outpatient resident clinic. Washinton Chapter American College of Physicians– 5th Annual Spring Scientific Scholarship Day, Seattle, WA, May 17, 2019.

GENERAL INTERNAL MEDICINE

Abstracts with Associated Research Presentations continued:

Farshad S, Figueroa Rodriguez F. The central nervous system effects and mimicry of common variable immunodeficiency. American College of Physicians (ACP) Resident's Day, Sterling Heights, MI, May 3, 2019.

Farshad S, Halalau A, Al-Katib S, Schiopu E. Evaluation of subclinical coronary atherosclerosis in ANCA-associated small vessel vasculitides (AAVs) compared to matched controls through visual assessment of coronary arterial calcium (CAC) score using non-gated chest computed tomography (CT). 2019 American College of Rheumatology/Association of Rheumatology Professionals (ACR/ARP) Meeting, Atlanta, GA, November 8-13, 2019.

Farshad S, Halalau A, Schiopu E. Utility of coronary calcium scoring (CCS) in the spectrum of connective tissue disorders (CTDs) for the evaluation of subclinical coronary atherosclerosis – a systemic review. 2019 American College of Rheumatology/Association of Rheumatology Professionals (ACR/ARP) Meeting, Atlanta, GA, November 8-13, 2019.

Farshad S, Halalau A, Townsend W, Schiopu E. Coronary scoring in connective tissue disorders for evaluation of coronary atherosclerosis– a systemic review. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Figueroa Rodriguez F. Davila F. Mitral valve endocarditis with perforation from a urinary source. An unusual case. National American College of Physicians (ACP), Philadelphia, PA, April 11-13, 2019.

Figueroa Rodriguez F, Savedchuk S, Schloop M, Dalal, B. Acute hypercapnic respiratory failure in a patient with esophageal adenocarcinoma. American Thoracic Conference (ATS), Dallas, TX, May 17-22, 2019.

Figueroa Rodriguez F, Uddin A, ***Iftikhar H,** Nasr J. Asymptomatic pulmonary melanoma. An incidental finding while evaluating new onset cough. American Thoracic Conference (ATS), Dallas, TX, May 17-22, 2019.

Gupta K, Khaled Z, Langnas E, Halalau A. Assessment of the anti-coagulation rates for atrial fibrillation in an outpatient resident clinic. 60th Annual National Student Research Forum, Galveston, TX, April 2019; American College of Physicians (ACP) Resident's Day, Sterling Heights, MI, May 3, 2019.

Halalau A, *Aneese A, Nasr J. A prospective mixed methods study evaluating the integration of an evidence based medicine curriculum into an internal medicine residency program. Alliance for Academic Internal Medicine, Philadelphia, PA, April 14-17, 2019.

Halalau A, *Hehar J, Sonmez M, Bushman J, *Keeney S. Pharm-MD; An open label, randomized controlled phase II study to evaluate the efficacy of a pharmacist managed diabetes clinic in high risk diabetes patients. National Society of General Internal Medicine, May 8-11, 2019.

GENERAL INTERNAL MEDICINE

Abstracts with Associated Research Presentations continued:

Hanna A, Odish F, Imam Z, Dalal B. Multiple liver abscesses caused by streptococcus intermedius bacteremia in the setting of a routine dental cleaning. National American College of Physicians (ACP), Philadelphia, PA, April 11-13, 2019.

***Iftikhar H, *Meka S, Kaur M, Khasawneh M, Dalal B.** Leimierre's syndrome (LS) is a life threatening condition with mortality reported between 5%-18% even with appropriate antibiotics. LS, the forgotten syndrome, can be elusive on initial presentation. Society of Critical Care Medicine Meeting, San Diego, CA, February 17-20, 2019.

Imam Z, Imam M, Wong R, Gish R, Gonzalez H. New insights into alkaline phosphatase (ALP) levels from the National Health and Nutrition Examination Survey (NHANES) 1999-2016. American Association for the Study of Liver Disease (ASLD), Boston, MA, November 8-12, 2019.

Imam Z, Odish F, Hanna A, Tahhan M. A case of Graves' disease presenting with severe hepatic dysfunction. American College of Gastroenterology Conference, San Antonio, TX, October 25-30, 2019.

Imam Z, Patwardhan S, Qu Z, Ghaith G. Ixekizumab induced gastritis and colitis in an elderly female with plaque psoriasis. American College of Gastroenterology Conference, San Antonio, TX, October 25-30, 2019.

Imam Z, Simons-Linares R, Chahhal P. Systematic review on viral hepatitis-induced acute pancreatitis. American College of Gastroenterology Conference, San Antonio, TX, October 25-30, 2019.

Ionescu F, Anusim B, Ma E, Qu L, Blankenship L, Stender M, et al. Inferior vena cava filter retrieval trends: A single center experience. American Society of Hematology Annual Meeting, Orlando, FL, December 7-10, 2019.

Ionescu F, Anusim N, Jaiyesimi I. Demographics and survival in B-Cell prolymphocytic leukemia: An analysis of SEER data. Lymphoma and Myeloma Congress, New York, NY, October 23-26, 2019.

Kakar T, Kara Balla A, Holmes B. Immunotherapy related pneumonitis, rare but lethal side effect. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Kara Balla A, Mando R, Hafeez A, Bloomingdale R, Trivax J. An angina aneurysm: Case report of a saphenous vein graft aneurysm decades following bypass grafting. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Kara Balla A, Mando R, *Hafeez A, Bloomingdale R, Trivax J. An angina aneurysm. American College of Physicians (ACP) Resident's Day, Sterling Heights, MI, May 3, 2019.

GENERAL INTERNAL MEDICINE

Abstracts with Associated Research Presentations continued:

Karmo D, Farshad S, Halalau A, Al-Katib S, George J, Schiopu E. Subclinical coronary atherosclerosis in ANCA associated vasculitides through visual assessment of coronary arterial calcium. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Karmo D, Farshad S, Savedchuk S, Kanaan C, **Halalau A.** A rare simultaneous presentation of lupus nephritis, vasculitis, and thrombotic thrombocytopenic purpura. American College of Physicians (ACP) Resident's Day, Sterling Heights, MI, May 3, 2019.

Karmo D, Odish F, Mando R, Shoichet S. Delicious but dangerous: Acute hepatitis triggered by Cassia cinnamon use. American College of Physicians (ACP), Philadelphia, PA, April 11-13, 2019.

Kaur M, Halalau A, Swami A. Atypical HUS caused by interferon beta therapy. American College of Physicians (ACP) Resident's Day, Sterling Heights, MI, May 3, 2019; American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Kaur M, *Hehar J, Siddiqi M. The bleeding cirrhotic – evaluation of coagulopathic states in end stage liver disease. National American College of Physicians (ACP), Philadelphia, PA, April 11-13, 2019.

Khasawneh M, Sigua Arce P, Swami A. Hemophagocytic lymphohistiocytosis and its impact on the kidney: A case report. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019; Michigan Thoracic Society, Novi, MI, April 11, 2019.

Khaled Z, Mustafa S, Halalau A, Lauter C. Chikungunya fever in the returning pregnant traveler. American College of Physicians (ACP) Resident's Day, Sterling Heights, MI, May 3, 2019; American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

***Krater R, Figueroa F,** Abbot E, Bozyk P. Hemothorax secondary to pulmonary AVM: A near-fatal presentation with difficult management. American Thoracic Conference (ATS), Dallas, TX, May 17-22, 2019.

Lai B, Ionescu F, Zimmer M, Chisti M. The case of the unstoppable clotting cascade: Failure of multiple anticoagulation agents in the setting of malignancy. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Langnas E, Gupta K, **Khaled Z,** Tagami T, **Halalau A.** Assessment of the guideline recommended anticoagulation rates for atrial fibrillation in an outpatient resident clinic. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Lauter C, Aneese A, **Figueroa Rodriguez F,** Eilender L. Severe CD4 lymphocytopenia in patients with multiple sclerosis treated with fingolimod. American Academy of Allergy Asthma & Immunology Annual Meeting, San Francisco, CA, February 22-25, 2019.

GENERAL INTERNAL MEDICINE

Abstracts with Associated Research Presentations continued:

Mando R. Aortic valve calcium score indexed to transaortic valve gradient: A novel hemodynamic and anatomic index for patients with low gradient aortic stenosis. Society for Cardiovascular Angiography & Interventions (SCAI), Las Vegas, NV, May 19-22, 2019.

Mando R. Incidence of patient prosthesis mismatch following native and valve-in-valve transcatheter aortic valve replacement based on indexed aortic valve area compared to energy loss index. Transcatheter Cardiovascular Therapeutics (TCT), San Francisco, CA, September 24-28, 2019.

Mando R, Abbas A, Gallagher M, Hanzel G, Shannon F, Khoury Abdulla R. Aortic valve calcium score and aortic valve gradient. American College of Cardiology, New Orleans, LA, March 16-18, 2019.

Mando R, Abbas A, Gallagher M, Safian R, Hanzel G, et al. Echo overestimates trans-aortic gradients immediately post TAVR: A pressure recovery phenomenon in a simultaneous Cath and Echo study. American College of Cardiology, New Orleans, LA, March 16-18, 2019.

Mando R, Akoegbe G, Shah R, Malas H, Maskoun W. Hostile tricuspid valve overcome by selecting the middle cardiac vein: An alternative for the standard right ventricular lead placement of biventricular ICD. American College of Cardiology, New Orleans, LA, March 16-18, 2019.

Mando R, Akoegbe G, Shah R, Singh G, Singh G, Malas H, et al. The role of biventricular implantable defibrillator in heart transplant recipients. Heart Failure Society of America (HFSA), Philadelphia, PA, September 13-16, 2019.

Mando R, Halalau A. When the theoretical becomes real – a case of May-Thurner syndrome, its treatment and complications. American Thoracic Society, Dallas, TX, May 17 – 22, 2019.

Mando R, Maraskine M, Halalau A. Trends in modifiable risk factors following myocardial infarction: A call for improvement. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Mando R, Sigua Arce P, Spencer L, Halalau A. A retrospective analysis of the treatment and complications related to May-Thurner syndrome. American College of Physicians (ACP) Resident's Day, Sterling Heights, MI, May 3, 2019.

Mansuri S, **Figueroa F.** Chronic kidney disease and sleep disordered breathing. American Society of Nephrology Annual Meeting 2019, Washington, DC, November 5-10, 2019.

Maraskine M, Mando R, Barbat J. Blinded by the heart. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Mayer C, Gill I, Sims M. Costochondral osteomyelitis? Think again. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Mayer C, Zarouk S. Steroid-induced tumor lysis syndrome in the setting of pembrolizumab use. National Kidney Foundation Spring Clinical Meeting, Boston, MA, May 8-12, 2019.

GENERAL INTERNAL MEDICINE

Abstracts with Associated Research Presentations continued:

Mustafa S, Kara Balla A, Khaled Z, Halalau A. Diagnostic challenge in cardiac sarcoidosis. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Mustafa S, Khaled Z, Halalau A. Rosuvastatin can cause DRESS. American College of Physicians (ACP) Resident's Day, Sterling Heights, MI, May 3, 2019.

Naeem E, Mustafa S, Hafeez A, Swami A. Concomitant ANCA vasculitis and membranous glomerulonephritis in a patient with acute renal failure. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Odish F, Patwardhan S, Jacob M. Gastric wall abscess– an uncommon culprit of epigastric abdominal pain. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

***Said A, *Keeney S, Halalau A.** Concomitant use of direct oral anticoagulants and aspirin versus direct oral anticoagulants alone in atrial fibrillation and flutter: Retrospective cohort. American College of Physicians, Philadelphia, PA, April 11-13, 2019; American College of Cardiology, New Orleans, LA, March 16-18, 2019.

***Said A, Matka M, Hafeez A, *Keeney S, Halalau A.** Concomitant use of direct oral anticoagulants and aspirin in atrial fibrillation and flutter. Southeast Michigan CME Conference, Dearborn, MI, May 2019.

Savedchuk S. Immune checkpoint induced relapsing interstitial nephritis. National Kidney Foundation Spring Clinical Meeting, Boston, MA, May 8-12, 2019.

Savedchuk S, Farshad S, Karmo D, Swami A, Halalau A. A rare case report of systemic lupus erythematosus (SLE) with acute nephritis, antineutrophil cytoplasmic antibody (ANCA) associated vasculitis, and thrombotic thrombocytopenic purpura (TTP). American Society of Nephrology (ASN) Kidney Week, Washington, DC, November 7, 2019.

Shams C, Amin M, Cappell M. Lymphocytic esophagitis: A single tertiary center's experience with this emerging clinical entity. Canadian Digestive Diseases Week, Banff, Alberta, Canada, March 1-3, 2019.

Shams C, Dalal B. Cannabis induced hemoptysis: A rare complication of a commonly used illicit substance. American Thoracic Society, Dallas, TX, May 17-22, 2019.

Shams C, Fernandes K, Davila F. Identifying predictors of self-discharge: An analysis of patients who leave against medical advice. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019, **Third Place Resident Winner**; Michigan Summit on Quality Improvement and Patient Safety, Troy, MI, May 29, 2019.

GENERAL INTERNAL MEDICINE

Abstracts with Associated Research Presentations continued:

Shams C, Leamon G, Demian S, Mina, N. Fungal empyema thoracis in an immunocompetent patient: An account of presentation, evaluation and treatment. American Thoracic Society, Dallas, TX, May 17-22, 2019.

Shams C, Mehindratta R, Cihewicz A, Nair GB, Mina N. Lipoid pneumonia: An uncommon complication of a common environmental cleaner. American Thoracic Society, Dallas, TX. May 17-22, 2019.

Shams C, Patwardhan S, Kulesza G. Pericardioesophageal fistula formation following ventricular tachycardia ablation: Case presentation with discussion of incidence and treatment. American College of Gastroenterology Annual Meeting, San Antonio, TX, October 25-30, 2019.

Shikhare A, **Halalau A.** Atypical presentation of clostridium difficile infection. American College of Physicians (ACP) Resident's Day, Sterling Heights, MI, May 3, 2019.

Sigua Arce P, Khasawneh M, Halalau A. More than just hiccups, metastatic cholangiocarcinoma. American College of Physicians (ACP) Resident's Day, Sterling Heights, MI, May 3, 2019; American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Sigua Arce P, Mando R, Spencer L, Halalau A. A retrospective analysis of the treatment and complications related to May-Thurner syndrome. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Slete K, Kandiah S, Johnson P, Cunningham J, Fett J, Halalau A, et al. Every visit counts: Rollout of a vaccination program in resident clinic during a hepatitis A virus outbreak in Michigan: A quality improvement study. National American College of Physicians (ACP), Philadelphia, PA, April 11-13, 2019.

Sonmez Ince M, Bushman J, Hehar J, Edupuganti S, Fett J, Halalau A. Pharm-MD: An open-label, randomized controlled phase II study to evaluate the efficacy of a pharmacist managed diabetes clinic. American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019.

Thapa S, Khanal D, Nito Y. Not so typical hemolytic uremic syndrome! American College of Physicians (ACP) Michigan Chapter Scientific Meeting, Grand Rapids, MI, October 10-13, 2019. Oral-Clinical Vignette.

Trang A, **Mando R, Halalau A.** Dercum's disease: A case report. American College of Physicians (ACP) Resident's Day, Sterling Heights, MI, May 3, 2019.

GERIATRICS

Peer-Reviewed Articles:

Yilmaz A, Ugur Z, Ustun I, Aasly JO, Bahado-Singh R, **Maddens M**, et al. Metabolic profiling of CSF from people suffering from Parkinson's disease. *Journal of the American Geriatrics Society* 2019,67:S254-S255.

HEMATOLOGY / ONCOLOGY

Peer-Reviewed Articles:

Khoury J, Jinna S, Sahlieh A, **Chacko R**, **Macari M**, **Jaiyesimi I**, et al, [**Huben M**]. Vitamin D status and survival in patients with triple negative breast cancer. *Journal of Clinical Oncology* 37;15,Suppl 1; May, 2019.

Macari D, ***Gbadamosi MB**, **Ezekwudo D**, **Khoury J**, **Jaiyesimi IA**, **Gaikazian SS**. Medical cannabis in cancer patients: Prevalence, efficacy, and safety. *J Clin Onco*, 2019 May 26;37(15).

Macari D, Kawak S, Raofi V, Wasvary H, **Jaiyesimi I**. Recurrence pattern and outcomes in T4 colon cancer: A single institution analysis. *J Surg Oncol*, November 2019; *J Clin Onco*, 37,Suppl 4, February 2019:706.

Ionescu F, **Anusim N**, Douglas-Nikitin V, **Stender M**. When leucocytosis is not leukaemia. *British Medical Journal Case Reports* 2019 May 24;12(5).

Orelaru F, ***Gbadamosi B**, Ifabiyi T, **Jaiyesimi I**. Assessing knowledge of sickle cell trait/disease inheritance in metropolitan Detroit. *Journal of the National Medical Association*, Detroit, MI, November 2019.

Abstracts with Associated Research Presentations:

Anusim N, Ionescu F, ***Ezekwudo D**, **Jaiyesimi I**. Demographics and survival in atypical chronic myeloid leukemia: SEER data analysis. Society of Hematologic Oncology (SOHO) conference, Houston, TX, September 2019.

Anusim N, Ionescu F, **Jaiyesim I**. Demographics and survival in malignant pleural mesothelioma: SEER data analysis. The International association for the Study of Lung Cancer (IASLC). North America Conference on Lung Cancer (NACLC), Chicago IL, October 2019.

Anusim N, **Khoury J**, Ionescu F, Thapa S, **Jaiyesimi I**. Demographics and survival in plasma cell leukemia: SEER data analysis. Lymphoma, Leukemia and Myeloma Congress. New York, NY, October 2019.

Anusim N, Ionescu F, **Khoury J**, **Jaiyesimi I**. Demographics and survival in metastatic inflammatory breast cancer: SEER data analysis. San Antonio Breast Cancer Symposium. San Antonio, TX, December 2019.

Khoury J, Chacko R, **Macari D**, ***Gbadamosi B**, ***Ezekwudo D**, **Blankenship L**, et al, [**Anderson J**, **Jaiyesimi I**]. Metastatic patterns and prognostic significance of signet ring cell carcinoma of the colon: Retrospective analysis of SEER database. *J Clin Oncol* 37, 2019 (Suppl 4); American Society of Clinical Oncology- Gastrointestinal Cancers Symposium, San Francisco, CA, January 2019.

Khoury J, ***Ezekwudo D**, Werede A, **Jaiyesimi I**. The role of adjuvant therapy in patients with pathological T2N0 resected gastric adenocarcinoma. National Comprehensive Cancer Network Annual Meeting, Orlando, FL, March 2019.

HEMATOLOGY / ONCOLOGY

Abstracts with Associated Research Presentations continued:

Macari D, Kawak S, Hanna L, **Khoury J**, Wasvary H, **Jaiyesimi I**. Recurrence pattern and outcomes in T4 colon cancer: A single institution analysis. American Society of Clinical Oncology GI Symposium, San Francisco, CA, January 2019.

Ionescu F, **Anusim N**, **Khoury J**, **Gaikazian S**, **Stender S**, **Jaiyesimi I**. Demographics and survival in B-Cell prolymphocytic leukemia: An analysis of SEER data. Lymphoma, Leukemia and Myeloma Congress, New York, NY, October 2019.

Ionescu F, **Anusim N**, Ma E, Qu L, **Blankenship L**, **Stender M**, et al, [**Jaiyesimi I**]. Inferior vena cava filter retrieval trends: A single center experience. American Society of Hematology (ASH) Conference. Orlando, FL, December 2019.

Khoury J, Jinna S, Sahlieh A, **Chacko R**, **Macari M**, **Jaiyesimi I**, et al, [**Huben M**]. Vitamin D status and survival in patients with triple negative breast cancer. Journal of Clinical Oncology 37;15, Suppl 1; May, 2019.

KhouryJ, **Anusim N**, **Macari D**, **Jaiyesimi I**. Demographics and Survival in male breast cancer: An updated analysis of SEER database. San Antonio Breast Cancer Symposium, San Antonio, TX, December 2019.

INFECTIOUS DISEASES

Peer-Reviewed Articles:

Anton G, Tong D, **Little T**, Soo TM. Minimally invasive sacroiliac joint fusion for the treatment of brucella pyogenic sacroiliitis: A case report. *Cureus*, November 2019;11.

Carpenter CF, Aljasseem A, Stassinopoulos J, Pisacreta G, Hutton D. A cost-effectiveness analysis of an adjuvanted subunit vaccine for the prevention of herpes zoster and post-herpetic neuralgia. *Open Forum Infectious Diseases*, May 2019;6(7).

Crist K, Murphy D, Wright MO, **Wallace E**, Manning ML. The role of the infection preventionist in a transformed healthcare system: Meeting healthcare needs in the 21st century. *Am J Infect Control*, 2019 April;47(4):352-357.

Emery C, Relich R, Davis T, Young S, **Sims MD**, Boyanton B. Multicenter evaluation of NeuMoDx™ Group B Streptococcus (GBS) assay on the NeuMoDx™ 288 Molecular System. *J Clin Microbiol*, January 2019;57(2).

Lodise TP, Rosenkranz SL, Finnemeyer M, Evans S, **Sims MD**, Zervos MJ, et al. Antibacterial resistance leadership group. The emperor's new clothes: Prospective observational evaluation of the association between initial vancomycin exposure and failure rates among adult hospitalized patients with MRSA bloodstream infections (PROVIDE). *Clin Infect Dis*; April 2019.

Pryor JB, Olyaei AJ, **Kirsch D**, Strasfeld L. Sulfonamide desensitization in solid organ transplant recipients: A protocol-driven approach during the index transplant hospitalization. *Transpl Infect Dis*, 2019 December;21(6).

Invited Research Presentations:

Berns M, Goldman B, Spencer L, **Sims MD**. Development of advanced antibiograms: Sub-analysis in pathogens with resistance to broad spectrum antibiotics. Michigan Infectious Diseases Society Annual Scientific Meeting, Ann Arbor, MI, March 2019; *Microbe*, San Francisco, CA, June 2019; Michigan Infectious Diseases Society Annual Scientific Meeting, Ann Arbor, MI, March 2019.

Lim JRM, Boyanton BL, George J, **Sims MD**. Epidemiology of groups A, C, and G beta-hemolytic streptococcal pharyngitis. *ID Week*, Washington, DC, October 2019.

Powell K, Sims MD. Evaluation of a rapid highly multiplexed molecular diagnostic lower respiratory tract panel for use with bronchoalveolar lavage specimens. *Microbe*, San Francisco, CA, June 2019.

Sims MD. Identification of genetic markers linked to recurrent methicillin resistant staphylococcus aureus skin and soft tissue infections. *ID Week*, Washington, DC, October 2019.

Spencer L, Berns M, Goldman B, **Sims MD**. Development of advanced antibiograms: Variation of resistance over time. Michigan Infectious Diseases Society Annual Scientific, Ann Arbor, MI, March 2019.

INFECTIOUS DISEASES

Invited Research Presentations continued:

Szela J, Venkatappa N, **Sims MD**. Risk and timing of clostridium difficile infection relapse after antibiotic exposure. Michigan Infectious Diseases Society Annual Scientific Meeting, Ann Arbor, MI, October 2019.

Szela J, Hanna A, **Sims MD**. Timing of secondary prophylaxis against clostridium difficile infection after antibiotic exposure. ID Week, Washington, DC, October 2019.

NEPHROLOGY

Peer-Reviewed Articles:

Shah S, **Topf J**. Mentorship in the digital age: Nephrology social media collective internship. Clin J Am Soc Nephrol, January 15, 2019.

Topf J, Hiremath S. Got CKD? There's an app for that! Clin J Am Soc Nephrol, April 5, 2019;14(4):491-492.

Book Chapter or Full Book Publications:

Kellerman PS. IgA Nephropathy. Ferri's Clinical Advisor, 2019;p766-768.

Abstracts with Associated Research Presentations:

Powell J, Karabon PJ, **Berman A**, **Kellerman PS**. Electrocardiographic manifestations of acute vs chronic hyperkalemia. American Society of Nephrology, Washington, DC, November 2019.

Mansuri S. The bidirectional relationship between chronic kidney disease and sleep disordered breathing. American Society of Nephrology, Washington, DC, November 2019.

NEUROLOGY

Peer-Reviewed Articles:

Alanazi AM, Al-Rashoud JR, Aljahani JM, Alotaibi AF, Althubaiti AM, **Kojan SM**, et al. Exploring the outcome of multiple sclerosis among Saudi adult patients. A single-centered cross-sectional study at King Abdulaziz Medical City in Riyadh, Saudi Arabia. *Neurosciences (Riyadh)*, 2019 July;24(3):168-175.

Alshammaa A, Keating R, Baki N, Mahajan A, Barkley **G**, **Zillgitt A**, et al. Is there a role for magnetoencephalography in pre-surgical RNS implantation in drug-resistant temporal lobe epilepsy? *Neurology* 2019;Suppl 15,p4-13.

Bulica B, Sidiropoulos C, Mahajan A, **Zillgitt A**, Kaminski P, Bowyer SM. Sensorimotor integration and GABA-ergic activity in embouchure dystonia: An assessment with magnetoencephalography. *Tremor Other Hyperkinet Mov*, 2019 September 24.

Fortunato J, **Menkes DL**. The aging physician: A practical approach to protect our patients. *Clinical Ethics*, February 2019.

Loeffler DA. Influence of normal aging on brain autophagy: A complex scenario. *Front Aging Neurosci*, 2019 March 11;11:49.

Loeffler DA, Aasly JO, LeWitt PA, Coffey MP. What have we learned from cerebrospinal fluid studies about biomarkers for detecting LRRK2 Parkinson's disease patients and healthy subjects with Parkinson's-associated LRRK2 mutations? *J Parkinsons Dis*, 2019 July 12.

Menkes DL. The brachial plexus: Anatomy and structure, clinical localization and electrodiagnostic features. *NeuroLearn: American Academy of Neurology*, 2019.

Menkes DL, Pierce RP. Needle EMG muscle identification: A systematic approach to needle EMG examination. Invited Review. *Clin Neurophysiol Pract*, October 2019;4:199-211.

Macey MB, Ho DT, **Parres CM**, Small JE. Spinal epidural venous plexus pathology in Hirayama disease. *J Clin Neuromuscul Dis*, 2019 September;21(1):47-51.

Viarasilpa T, Panyavachiraporn N, Osman G, **Parres C**, Varelas P, Van Harn M, et al. Electrographic seizures in patients with acute encephalitis. *Neurocrit Care*, 2019 February;30(1):207-215.

Sandrone S, Berthaud JV, Chuquilin M, Cios J, Ghosh P, Gottlieb-Smith RJ, et al, **[Menkes DL]**. Neurological education: Strategies to mitigate neurophobia for purposes of mentoring future health care providers. *Neurology*, January 2019;92:174-179.

Sarva H, **Trosch R**, Kiss ZHT, Furtado S, Luciano MS, Glickman A, et al. Deep brain stimulation in isolated dystonia with a GNAL mutation. *Mov Disord*, 2019 February;34(2):301-303.

Simon AE, **Menkes DL**. Case report: Cyclophosphamide as a rescue agent in myasthenic crisis. *Practical Neurolog*, March/April 2019;9-31.

NEUROLOGY

Abstracts with Associated Research Presentations:

Sandrone S, Berthaud JV, Chuquilin M, Cios J, Ghosh P, Gottlieb-Smith RJ, et al, **[Menkes DL]**. Neurological education: Strategies to mitigate neurophobia for purposes of mentoring future health care providers. American Academy of Neurology Annual Meeting, Philadelphia, PA, April 2019.

NUTRITION and PREVENTIVE MEDICINE

Peer-Reviewed Articles:

Matus BA, Bridges KM, Logomarsino JV. Evaluation of key factors impacting feeding safety in the neonatal intensive care unit: A systematic review. *Adv Neonatal Care*, 2019 February;19(1):11-20.

PULMONARY and CRITAL CARE MEDICINE

Peer-Reviewed Articles:

Nair GB, Castillo E, Myzuik N, Grills I, Stevens C, Guerrero T. Differential ventilation pattern on novel functional imaging in a patient with unilateral bronchial obstruction caused by adenoid cystic carcinoma. *Am J Respir Crit Care Med*, 2019 September 19.

Nair GB, Castillo E. Longitudinal lung compliance imaging in idiopathic pulmonary fibrosis. *Radiology*, 2019 November;293(2):272.

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Williams CM, Alweis RL, O'Connor AB, **Dalal B**, Rai D, Abdullah A, et al. Inappropriate communication during Internal Medicine fellowship recruitment: A mixed-methods analysis. *Am J Med*, 2019 June;132(6):770-775.

NURSING

Peer-Reviewed Articles:

Bittinger A, Dunn K, **Hranchook A**, Codier E. Relationship between emotional intelligence and occupational stress levels among Certified Registered Nurse Anesthetists. AANA Journal, November 2019.

Golinski M. Improving mortality in trauma laparotomy through the evolution of damage control resuscitation: Analysis of 1,030 consecutive trauma laparotomies. Anesthesia Abstracts, December 2019;p8-10.

Hirsch M, Geisz-Everson M, Clayton B, Wilbanks B, **Golinski M**, Kremer M, et al. It's never just a block: An analysis of regional anesthesia closed claims. American Association of Nurse Anesthetists (AANA) October 2019;87(5):365.

Hranchook M, Jordan M, Everson M, Hirsch M, Matthews R. Discoveries of distinction: A content and thematic analysis of closed claims resulting in death. American Association of Nurse Anesthetists (AANA) NewsBulletin, March 2019;p37.

Abstracts with Associated Research Presentations:

Bittinger A, Hoiska D, Nicoski D, Rajala J, Wachter M. The impact of angiotensin converting enzyme inhibitors and angiotensin II receptor blockers on intraoperative blood pressure control: A systematic literature review. Michigan Association of Nurse Anesthetists Fall meeting, Grand Rapids, MI, October 2019.

Couture E, **Hranchook A**, Dunn K. CRNA attitudes and beliefs toward the use of the 2017 ACC/AHA clinical practice guidelines for management of hypertension in the perioperative setting; AANA Foundation Abstracts, American Association of Nurse Anesthetists, Annual Congress, Chicago, IL; August 2019; AANA Foundation State of the Science at the AANA Annual Congress, Chicago, IL; August 2019; Michigan Association of Nurse Anesthetists Fall Meeting, Grand Rapids, MI, October 2019.

Golinski M, **Hranchook A**. Adverse events during cosmetic surgery: A thematic analysis of closed claims. American Association of Nurse Anesthetists (AANA) Assembly of Didactic & Clinical Educators Meeting, Houston, Texas, February. 2019.

Golinski M, Schymik F, Feenstra B, Craft M, Stoffer K, Nicholson R. An assessment of perioperative glucose values following current practice patterns in the patient with diabetes engaged in an orthopedic ERAS protocol. Michigan Association of Nurse Anesthetists Fall Meeting, Grand Rapids Michigan, October 2019; 4th Annual Beaumont Health Nursing Research Symposium, Royal Oak, Michigan, November 2019.

Golinski M, Potestato, R, McClane K. Acute and chronic post mastectomy pain. Michigan Association of Nurse Anesthetists Fall Meeting, Grand Rapids, MI, October 2019; 4th Annual Beaumont Health Nursing Research Symposium, Royal Oak, MI, November 2019.

NURSING

Abstracts with Associated Research Presentations continued:

Golinski M, Booth J. The effects of amiodarone on patients undergoing myocardial revascularization. 4th Annual Beaumont Health Nursing Research Symposium, Royal Oak, Michigan, November 2019.

Hranchook A, Jordan M, Everson M, Hirsch M, Matthews R. A content and thematic analysis of closed claims resulting in death. American Association of Nurse Anesthetists (AANA) Assembly of Didactic & Clinical Educators Meeting, Houston, TX, February 2019.

McDonald L, Bijelic D, Jackson J. Perceived stress related to the duration of clinical exposure in the student Registered Nurse Anesthetist. Michigan Association of Nurse Anesthetists Fall Meeting, Grand Rapids, MI, October 2019.

Rodgers L, Moran T, DiSanto A, Pywell C. Use of sugammadex at Troy Beaumont: A retrospective study. 4th Annual Beaumont Health Nursing Research Symposium, Royal Oak, MI, November 2019.

Invited Research Presentations:

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OBSTETRICS / GYNECOLOGY

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Alhousseini A, Mahaseth M, Zeineddine S, Jaiman S, Berman S, Bryant D, et al. A non-lethal osteogenesis imperfecta type II mutation. *Gynecol Obstet Invest*, March 2019;84(2):204-208.

Theis KR, Romero R, Winters AD, Greenberg JM, Gomez-Lopez N, **Alhousseini A**, et al. Does the human placenta delivered at term have a microbiota? Results of cultivation, quantitative real-time PCR, 16S rRNA gene sequencing, and metagenomics. *Am J Obstet Gynecol*, 2019 March;220(3):267,e1-267.

Alhousseini A, Zeineddine S, Hussein A, Baddah H, Saker H, Mody S, et al, [**Bahado-Singh R**]. Familial hydrocephalus and dysgenesis of the corpus callosum associated with Xp22.33 duplication and stenosis of the aqueduct of Sylvius with X-linked recessive inheritance pattern. *Gynecol Obstet Invest*, 2019 April 9;1-5.

Alhousseini A, Gomez-Roberts H, Fawaz A, Berman S, Mody S, Puder KS. Traumatic subdural hemorrhage in one fetus of a twin pregnancy. *J of Reproductive Med*, June 2019.

Alpay Savasan Z, **Yilmaz A**, **Ugur Z**, Aydas B, **Bahado-Singh R**, **Graham S**. Metabolomic profiling cerebral palsy brain tissue reveals novel central biomarkers and biochemical pathways associated with the disease: Pilot study. *Metabolites*, February 2019.

***Ogunyemi D**, **Friedman P**, ***Hage N**, **Kim SK**. A multidisciplinary model for reviewing severe maternal morbidity cases and teaching residents patient safety principles. *Jt Comm J Qual Patient Saf*, 2019 June;45(6):423-430.

Book Chapter or Full Book Publications:

Kim SK, **Bronsteen R**, **Talbot C**, **Liu J**, **Taylor R**. Intestinal duplication cyst. *Visual Encyclopedia of Ultrasound in Obstetrics and Gynecology*, January 28, 2019.

Abstracts with Associated Research Presentations:

Eleassar H, **Alpay Savasan Z**. Racial disparities in perinatal outcomes among patients with pre-gestational diabetes mellitus. *AMWA/MWIA Conference*, New York NY, July 2019.

Talbot C, **Kim S**, **Friedman P**, ***Ogunyemi D**. Independent associations of labor epidural analgesia and vaginal deliveries in a large suburban medical center. *Society for Reproductive Investigation*, Paris, France, March 2019.

***Ogunyemi D**, **Clare C**, **Astudillo Y**, **Marseille M**, **Kim SK**, **Manu E**. Microaggressions in the learning environment: A systematic review. *Innovations in Medical Education Conference*, Los Angeles, CA, February 22, 2019.

Kim SK, **Vishweswaraiyah S**, **Macknis J**, ***Lalwani A**, **Mishra NK**, **Guda C**, et al, [***Ogunyemi D**, **Radhakrishna U**, **Bahado-Singh R**]. New-onset postpartum preeclampsia: Mechanisms and prediction. *SMFM 39th Annual Pregnancy Meeting*, Las Vegas, NV, February 15, 2019.

OPHTHALMOLOGY

Peer-Reviewed Articles:

Akella SS, **Schlachter DM, Black EH**, Barmettler A. Ophthalmic eosinophilic granulomatosis with polyangiitis (Churg-Strauss Syndrome): A systematic review of the literature. *Ophthalmic Plast Reconstr Surg*, 2019 January/February;35(1):7-16.

Cheung AY, Price JM, Hart JC Jr. Late-onset uveitis-glaucoma-hyphema syndrome caused by soemmering ring cataract. *Can J Ophthalmol*, 2019 August;54(4):445-450.

De la Huerta I, Mesi O, Murphy B, **Drenser KA, Capone A Jr, Trese MT**. Spectral domain optical coherence tomography imaging of the macula and vitreomacular interface in persistent fetal vasculature syndrome with posterior involvement. *Retina*, 2019 March;39(3):581-586.

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Francis JH, Milman T, Grossniklaus H, Albert DM, **Folberg R**, Levitin GM, et al. GNAQ mutations in diffuse and solitary choroidal hemangioma. *Ophthalmology*, July 2019;126:759-763.

Grewal DS, Charles S, Parolini B, Kadonosono K, **Mahmoud TH**. Autologous retinal transplant for refractory macular holes: Multicenter International Collaborative Study Group. *Ophthalmology*, 2019 October;126(10):1399-1408.

Korot E, Wood E, Weiner A, Sim DA, **Trese M**. A renaissance of teleophthalmology through artificial intelligence. *Eye (Lond)*, 2019 June;33(6):861-863.

Koulisis N, Moysidis SN, Yonekawa Y, **Dai YL**, Burkemper B, **Wood EH**, et al, [**Lertjirachai I, Todorich B, Khundkar TZ, Williams GA, Drenser KA, Capone A Jr, Trese MT**]. Correlating changes in the macular microvasculature and capillary network to peripheral vascular pathologic features in familial exudative vitreoretinopathy. *Ophthalmol Retina*, 2019 July;3(7):597-606.

Lee Kim E, **Weiner AJ**, Ung C, Roh M, Wang J, Lee IJ, et al, [**Stem M, Williams GA, Garretson BR, Hassan TS, Faia LJ, Capone A Jr, Drenser KA, Wolfe JD**]. Characterization of epiretinal proliferation in full-thickness macular holes and effects on surgical outcomes. *Ophthalmol Retina*, 2019 August;3(8):694-702.

***Rao P, Knapp AN, Todorich B, Drenser KA, Trese MT, Capone A Jr**. Anatomical surgical outcomes of patients with advanced Coats disease and Coats-like detachments: Review of literature, novel surgical technique, and subset analysis in patients with facioscapulohumeral muscular dystrophy. *Retina*, 2019 October;39 Suppl 1:S182-S190.

OPHTHALMOLOGY

Peer-Reviewed Articles continued:

***Rao P**, Lertjirachai I, Yonekawa Y, **Hasbrook M**, Thomas BJ, **Wood EH**, et al, [**Mehta N, Mane G, Dresner KA, Trese MT, Capone A Jr**]. Etiology and clinical characteristics of macular edema in patients with familial exudative vitreoretinopathy. *Retina* 2019 Aug 9.

***Stem MS**, Wa CA, **Todorich B**, Woodward MA, Walsh MK, **Wolfe JD**. 27-Gauge sutureless intrascleral fixation of intraocular lenses with haptic flanging: Short-term clinical outcomes and a disinsertion force study. *Retina*, 2019 November;39(11):2149-2154.

Storey PP, Tauqeer Z, Yonekawa Y, Todorich B, **Wolfe JD**, Shah SP, et al. The impact of prefilled syringes on endophthalmitis following intravitreal injection of ranibizumab. *Am J Ophthalmol*, 2019 March;199:200-208.

Sawarynski KE, Baxa DM, Folberg R. Embarking on a journey of discovery: Developing transitional skill sets through a scholarly concentration program. *Teach Learn Med*, 2019;31(2): 195-206.

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Vinekar A, Dogra M, Azad RV, Gilbert C, **Gopal L, Trese MT**. The changing scenario of retinopathy of prematurity in middle and low income countries: Unique solutions for unique problems. *Indian J Ophthalmol*, 2019 June;67(6):717-719.

Wang JC, Ryan EH, Ryan C, Kakulavarapu S, Mardis PJ, Rodriguez M, et al, [**Capone A Jr**]. Factors associated with the use of 360-degree laser retinopexy during primary vitrectomy with or without scleral buckle for rhegmatogenous retinal detachment and impact on surgical outcomes (Pro Study Report Number 4). *Retina*, 2019 December 23.

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Wood EH, Drenser KA, Capone A, Jr. Diagnosis and management of familial exudative vitreoretinopathy: A lifelong, progressive, and often asymmetric disease. *JAMA Ophthalmol*, 2019 June 6.

Wood EH, *Rao P, Mahmoud TH. Nanovitreoretinal subretinal gateway device to displace submacular hemorrhage: Access to the subretinal space without vitrectomy. *Retina*, 2019 October 30.

Wood EH, Tang PH, De la Huerta I, Korot E, Muscat S, Palanker DA, et al, [Williams GA]. Stem cell therapies, gene-based therapies, optogenetics, and retinal prosthetics: Current state and implications for the future. *Retina*, 2019 May;39(5):820-835.

Book Chapter or Full Book Publications:

Folberg R, Pe'er J. Uveal Melanoma: Prognostic Factors. In Damato BE, Singh AD (eds). *Clinical Ophthalmic Oncology – Uveal Tumors*, 3rd edition. Springer Nature, Basel Switzerland, 2019, p273-278.

Pe'er J, **Folberg R.** Conjunctival and Corneal Tumors: Primary Acquired Melanosis. In Damato BE, Singh AD (eds). *Clinical Ophthalmic Oncology – Uveal Tumor*, 3rd edition, Springer Nature. Basel Switzerland 2019, p175-184.

Pe'er J, **Folberg R.** Conjunctival and Corneal Tumors: Melanoma. In Damato BE, Singh AD (eds). *Clinical Ophthalmic Oncology – Uveal Tumors*, 3rd edition, Springer Nature, Basel Switzerland, 2019, p185-194.

Invited Research Presentations:

Folberg R. The Zimmerman Lecture at the Annual Meeting of the American Academy of Ophthalmology, San Francisco, CA, October 2019.

ORTHOPAEDIC SURGERY

Peer-Reviewed Articles:

Baker EA, Vara AD*, Salisbury MR*, Fleischer MM, Baker KC, Fortin PT, et al. Titania nanotube morphologies for osseointegration via models of in vitro osseointegrative potential and in vivo intramedullary fixation. *J Biomed Mater Res B Appl Biomater*, November 2019.

Baumann CA, **Hinckel BB**, Tanaka MJ. Update on patellofemoral anatomy and biomechanics. *Operative Techniques in Sports Medicine*, December 2019;27(4).

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Daley E*, Zaltz I. Strategies to avoid osteonecrosis in unstable slipped capital femoral epiphysis: A critical analysis review. *JBJS Rev*, April 2019;7(4).

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Peer-Reviewed Articles continued:

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Hinckel BB, Lipinski L, Arendt EA. Concepts of the distal medial patellar restraints: Medial patellofemoral ligament and medial patellomeniscal ligament. *Sports Med Arthrosc Rev*, December 2019;27(4):143-149.

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Kim DH, Hwang RW, Lee GH, Joshi R, **Baker KC**, Arnold P, et al, [**Park D, Fischgrund J**]. Potential significance of facet joint fusion or posteromedial fusion observed on CT imaging following attempted posterolateral or posterior interbody fusion. *Spine J*, 2019;October 28.

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Peer-Reviewed Articles continued:

McQuivey KS, Christopher ZK, Chung AS, Makovicka J, **Guettler J**, Levasseur K. Implementing the Lever Sign in the Emergency Department: Does it Assist in Acute Anterior Cruciate Ligament Rupture Diagnosis? A Pilot Study. *J Emerg Med*, November 2019;57(6):805-811.

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Park DK, Roberts R, Arnold P, Kim DH, Sasso R, **Baker KC**, et al, [**Fischgrund JS**]. Lumbar spine fusion rates with local bone in posterolateral and combined posterolateral and interbody approaches. *J Am Acad Orthop Surg Global Res Rev*, November 2019;3(11).

***Rapp CM, *Shields EJ, Wiater BP, Wiater JM.** Venous thromboembolism after shoulder arthroplasty and arthroscopy. *J Am Acad Orthop Surg*, April 2019;27(8):265-74.

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Sabesan VJ, Lima DJL, **Whaley JD**, Pathak V, Zhang L. Biomechanical comparison of 2 augmented glenoid designs: An integrated kinematic finite element analysis. *J Shoulder Elbow Surg*, March 2019;28(6):1166-74.

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ORTHOPAEDIC SURGERY

Peer-Reviewed Articles continued:

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***Wu JC**, ***Mills A**, **Grant KD**, **Wiater PJ**. Fracture fixation using shape-memory (Nitinol) staples. Orthop Clin North Am, October 2019;50(3):367-74.

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Zakaria HM, Mansour TR, Telemi E, Asmaro K, Bazydlo M, Schultz L, et al, [**Khalil JG**, **Easton R**]. The association of preoperative opioid usage with patient-reported outcomes, adverse events, and return to work after lumbar fusion: Analysis from the Michigan Spine Surgery Improvement Collaborative (MSSIC). Neurosurgery, 2019 October 9.

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Abstracts with Associated Research Presentations:

Baker EA, Gehrke CK, *Siljander MP, *Sobh AH, Wheeler SD, Flierl MA, et al, [Moore DD]. Does taper design affect taper fretting corrosion in ceramic on polyethylene total hip arthroplasty? A retrieval analysis. 2019 Annual Meeting of the Orthopaedic Research Society, Austin, TX, February, 2019.

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Chang V, Zakaria H, Bazydle M, Schultz L, **Khalil J, *Webb B.** Preoperative PHQ-2 scoring predicts patient satisfaction and return to work up to 1-year after lumbar fusion: A 2-year analysis from the Michigan Spine Surgery Improvement Collaborative (MSSIC). 2019 Annual Meeting of the Lumbar Spine Research Society, Chicago, IL, April. 2019.

Fischgrund JS, Sasso RC, Bae HW, Rhyne AL. Two-year outcomes of patients treated with basivertebral nerve ablation for the relief of chronic low back pain: Results of the SMART trial. 2019 Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2019.

Fleischer MM, Newton MD, Hartner S, *Gandhi S, *Possley D, *Fahs A, et al, [*Anoni R, Baker KC]. Combinatorial strategies to promote marrow-derived mesenchymal stem cell mobilization and in vivo bone formation. 2019 Annual Meeting of the Orthopaedic Research Society, Austin, TX, February 2019.

Fleischer MM, Newton M, Hartner S, Naimark M, Lee S, *Salisbury M, et al, [Gorgas E*, Anoni R*, Baker KC]. Locally-delivered chemokines promote marrow-derived mesenchymal stem cell recruitment in a rotator cuff repair model. 2019 Annual Meeting of the Orthopaedic Research Society, Austin, TX, February 2019.

Friedrich C, **Baker EA, Bhosle S, Poyner D.** In vivo antibacterial effectiveness of nanotextured titanium implant surfaces. Annual Congress of the International Society for Technology in Arthroplasty, Toronto, Canada, October 2019.

Friedrich C, Wang S, Francis A, **Baker EA.** Mechanical integrity of MRSA antibacterial nanotube surfaces. 2019 Annual Congress of the International Society for Technology in Arthroplasty, Toronto, Canada, October 2019.

***Gandhi SD, *Fahs *, Wahlmeier S, Louie P, *Possley DR, Khalil J, et al, [Baker KC, Park DK].** Assessing radiographic fusion rates following a stand-alone interbody cage versus an anterior plate construct for adjacent segment disease after anterior cervical discectomy and fusion. 2019 Annual Meeting of the Cervical Spine Research Society, New York, NY, November 2019.

ORTHOPAEDIC SURGERY

Abstracts with Associated Research Presentations continued:

***Gandhi SD, *Possley DR, *Fahs A, Baker KC, Khalil J, Park DK.** Fusion rate with stand-alone interbody cage for adjacent segment disease after anterior cervical discectomy and fusion. 2019 Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2019.

***Gandhi SD, *Sauber R, Weisz K, Tooley T, Baker KC, Park DK.** Effect of local retropharyngeal steroids on fusion rate after anterior cervical discectomy and fusion. 2019 Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2019.

***Gandhi SD, Wahlmeier S, Louie P, *Sauber R, Tooley T, Baker KC, et al, [Park DK].** Effect of local retropharyngeal steroids on fusion rate after anterior cervical discectomy and fusion. 2019 Annual Meeting of the Cervical Spine Research Society, New York, NY, November 2019.

Gehrke C, Jee Y, *Siljander M, Lepore M, Flierl M, Moore DD, et al, [Baker EA]. Does femoral head composition affect fretting and corrosion in ceramic on polyethylene total hip arthroplasty? A retrieval analysis. 2019 Annual Congress of the International Society for Technology in Arthroplast, Toronto, Canada, November 2019.

Hartner SE, Fleischer MM, Newton MD, Acker WB, *Bush CJ, *Luczak S, et al, [Altman P, *Salisbury M, Baker K]. Modulation of the acute post-ACL rupture intra-articular environment via recruitment of marrow-derived stem cells to promote bone tunnel healing in ACL reconstruction. 2019 Annual Meeting of the Orthopaedic Research Society, Austin, TX, February 2019.

Hsu M, ***Loy BN, *Salisbury M, Baker EA, Vaupel Z, Fortin PT, et al, [Baker KC].** Influence of local chemokine delivery and postoperative peripheral blood mobilization on Achilles tendon repair. 2019 Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2019.

Jee Y, Kalma J, Smith J, Koueiter DM, *Siljander M, Karadsheh M. Soft tissue envelope around the surgical site of total knee arthroplasty is associated with rate of wound complications. 2019 Annual Meeting of the American Academy of Hip and Knee Surgeons, Dallas, TX, November 2019.

Khalil J, Sasso R, Snowden R, Vinayek S, Motowski L. Clinical outcomes for 1 & 2 level ACDF utilizing an integrated interbody device: A prospective non-randomized study. International Society for Advancement of Spine Surgery (ISASS), 19th Annual Conference, Anaheim CA, April 2019; Global Spine Congress Annual Conference, Toronto, Canada, May 2019.

Lamping J, *Daley E, Koueiter D, Zaltz I. Reoperations following periacetabular osteotomy: A closer look at impingement following PAO. 2019 Annual Meeting of the Michigan Orthopaedic Society, Mackinac Island, MI, June 2019.

***Linkous NT, Wright J*, Koueiter DM, Wiater JM, Wiater BP.** Outcomes for reverse total shoulder arthroplasty after failed open reduction internal fixation versus primary reverse total shoulder arthroplasty for proximal humerus fractures. 2019 Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2019; Annual Meeting of the Michigan Orthopaedic Society, Mackinac Island, MI, June 2019.

ORTHOPAEDIC SURGERY

Abstracts with Associated Research Presentations continued:

***Luczak B, Newton MD, Hartner SE, Acker WB, *Bush C, *Salisbury M, et al, [Baker KC].** Modulation of the acute post-ACL rupture intra-articular environment via recruitment of marrow-derived stem cells to promote bone tunnel healing in ACL reconstruction. 2019 Annual Meeting of the Michigan Orthopaedic Society, Mackinac Island, MI, June 2019.

***Maerz T, Baca G, Beaulé PE, Clohisy JC, Kim YJ, Larson CM, et al, [Zaltz I].** Gender differences in outcome after corrective surgery for femoroacetabular impingement (FAI) reflects differences in preoperative baseline scores. 2019 Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2019.

Nepple JJ, Bedi A, **Zaltz I**, Larson CM, Beaulé PE, Sink EL, et al. Predictors of failure after surgical treatment of femoroacetabular impingement: Results of a multicenter prospective cohort of 621 hips. 2019 Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2019; Annual Meeting of the Pediatric Orthopaedic Society of North America. Charlotte, NC, May 2019.

Nepple JJ, **Zaltz I**, Bedi A, Beaulé PE, Millis MB, Sierra RJ, Sink EL, ANCHOR Study Group, Clohisy JC. Surgical treatment of femoroacetabular impingement: Arthroscopy vs. surgical hip dislocation – A propensity matched analysis. Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2019.

Newton MD, Hartner SE, Fleischer MM, *Gandhi S, *Salisbury M, *Gellci K, et al, [Baker KC]. Recruitment of mesenchymal stem cells to the intervertebral disc via local chemokine delivery from an injectable hydrogel. 2019 Annual Meeting of the Orthopaedic Research Society, Austin, TX, February 2019.

Newton MD, Hartner SE, Fleischer MM, *Salisbury M, *Bush CJ, *Luczak SB, et al, [Altman P, *Gellci K, *Anoni R, Baker KC]. Mobilization and recruitment of endogenous marrow-derived stem cells to combat post-traumatic osteoarthritis following ACL rupture. 2019 Annual Meeting of the Orthopaedic Research Society, Austin, TX, February 2019.

Park K, Henrichsen JL, *Siljander M, Baker EA, Gehrke C, Flierl MA. Aspirin venous thromboembolism chemoprophylaxis is effective after revision arthroplasty for periprosthetic joint infection. 2019 Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2019

***Siljander M, *Sobh AH, Gehrke C, *Wheeler SD, Flierl MA, Moore DD, et al, [Baker EA].** Does taper design affect taper fretting corrosion in ceramic on polyethylene total hip arthroplasty? A retrieval analysis. 2019 Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2019 .

Smith JT, Koueiter D, Zaltz I. Guiding diagnosis and treatment in borderline hip dysplasia using the femero-epiphyseal acetabular roof (FEAR) index. 2019 Annual Meeting of the Michigan Orthopaedic Society, Mackinac Island, MI, June 2019.

ORTHOPAEDIC SURGERY

Abstracts with Associated Research Presentations continued:

Swarup I, **Zaltz I**, Robustelli S, Kelly B, Sink E. Outcomes of periacetabular osteotomy for mild acetabular dysplasia in adolescent patients. 2019 Annual Meeting of the Pediatric Orthopaedic Society of North America, Charlotte, NC, May 2019.

Trinh TQ, Leunig M, Larson CM, Clohisy JC, Nepple JJ, **Zaltz I**, et al. Lateral center edge angle is not predictive of acetabular articular cartilage surface area: Anatomic variation of the lunate fossa. 2019 Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2019.

***Wright J**, ***Siljander M**, **Gehrke C**, **Baker EA**, Powell KA, **Newton MD**, et al, [**Fortin PT**]. Antibacterial and osseointegrative efficacy of titania nanotube surfaces. 2019 Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2019.

***Wright J**, **Weisz K**, **Baker EA**, **Gehrke C**, **Wiater JM**. Risk factors and outcomes of empiric treatment for culture-negative periprosthetic joint infection following arthroplasty – A case series. 2019 Annual Meeting of the Michigan Orthopaedic Society, Mackinac Island, MI, June 2019.

Zakaria H, Chang V, Bazydlo M, Schultz L, Guo Y, **Khalil J**. Chronicity of preoperative opioid usage predicts patient satisfaction, return to work, and achieving ODI MCID up to 2 years after lumbar fusion: Analysis from the Michigan Spine Surgery Improvement Collaborative (MSSIC). Lumbar Spine Research Society (LSRS) 12th Annual Meeting, Chicago, IL, April 4-5, 2019.

Invited Research Presentations:

Baker KC. Stem cell trafficking in post-traumatic osteoarthritis. Oakland University Physics Colloquium, Rochester, MI, February 2019.

Fortin P. Tibial deformity and ankle arthritis: Is there a role for axis realignment? International Musculoskeletal Society (I.M.S.) Annual Meeting, Beirut Lebanon, July 1-3, 2019.

Fortin P. Adult manifestations of pediatric conditions. International Musculoskeletal Society (I.M.S.) Annual Meeting, Beirut Lebanon, July 1-3, 2019.

Gladden P, **Wiater P**, Cross BJ. A novel approach to maintaining reduction and achieving compression in transverse subtrochanteric and pelvic fractures using continuous compression implants. 2019 Annual Meeting of the Orthopaedic Trauma Association, Denver, CO, September 2019.

Hinckel BB. Instructional course lecture: Soft tissue and bony procedures for patellofemoral instability: Indications and techniques. International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, Mexico City, Mexico, May 2019.

Hinckel BB. Live surgical demonstration: Combined MPTL and MPFL reconstruction. International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, May 2019, Mexico City, Mexico.

ORTHOPAEDIC SURGERY

Invited Research Presentations:

Khalil J. Basivertebral nerve ablation. Allegheny General Hospital annual conference, Pittsburg, PA, August 2019.

Khalil J. Frailty and preoperative optimization in musculoskeletal surgery. International Musculoskeletal Society (I.M.S.) Annual Meeting, Beirut Lebanon, July 1-3, 2019.

Khalil J. Vertebrogenic back pain/BVN ablation. International Musculoskeletal Society (I.M.S.) Annual Meeting, Beirut Lebanon, July 1-3, 2019.

Khalil J. My own complication case: When and how things went bad-lessons learned. International Musculoskeletal Society (I.M.S.) Annual Meeting, Beirut Lebanon, July 1-3, 2019.

Khalil J. What is the value proposition of navigation/robotic MIS TLIF. International Musculoskeletal Society (I.M.S.) Annual Meeting, Beirut Lebanon, July 1-3, 2019.

PATHOLOGY and LABORATORY MEDICINE

Peer-Reviewed Articles:

Boyanton, BL, Hanna MM, Hafez-Khayyata S, **Robinson-Dunn B**. Fatal postpartum infection. *Infect. Dis. Clin. Practice*, January 2019;28:53–54.

Fay K, Almendares O, **Robinson-Dunn B**, S Schrag. Antenatal and intrapartum nucleic acid amplification test use for group B Streptococcus screening-United States 2016. *Diagn. Microbiol Infect Dis*,94:157-159; June 2019.

Gupta A, *Gabbard A, Smith MD, **Micale M**, Boyanton B, Huang J. Biclonal splenic marginal zone lymphoma with T-cell rich background and aggressive transformation to large cell lymphoma, *Journal of Hematopathology*, April 5, 2019;12:91-98.

Hakim S, Orosey M, Edhi A, **Amin M**, Cappell MS. Complete response for 36 months after BRAF and MEK inhibitor therapy for locally advanced gallbladder melanoma. *Minerva Gastroenterol Dietol*, 2019 September;65(3):243-246.

Lai Z, Li W, Macknis J. Synaptophysin-positive nested stromal-epithelial tumor (NSET) of the liver in a 13-year-old male: A case report. *Human Pathology: Case Reports*, June 2019.

Lai Z, *Kumar T, Zhao R, **Li W, Kanaan HD, Zhang P**, et al. Monoclonal gammopathy of renal significance and its associated experimental models: A brief review. *Ann Clin Lab Sci*, 49(4):439-447, September 2019.

Le A, **Amin M**, Cappell MS. Case report of a proposed, novel, endoscopic "whitehead pimple" sign of ectopic esophageal sebaceous glands based on their mimicking the dermatologic and histopathologic characteristics of cutaneous whitehead pimples/closed comedones. *Dig Dis Sci*, 2019 July;64(7):2049-2053.

Ma X, Wang Z, **Yu L**, Yao W, Xiao L, Yao Z, et al. Mirror image between gas-particle partitioning and soil-moss distribution of polybrominated diphenyl ethers in the polar regions. *Sci Total Environ*, 2019 March 15;656:1199-1206.

Perez D, **Fullmer JM**, Naous R. A rare case of TLE1-positive sclerosing epithelioid fibrosarcoma expanding the differential diagnosis of TLE1-positive tumors: A case report. *AME Case Rep*, 2019 March 5;3:6.

Sundram U. Cutaneous lymphoproliferative disorders: What's new in the revised 4th edition of the World Health Organization (WHO) classification of lymphoid neoplasms. *Adv Anat Pathol*, 2019 March;26(2):93-113.

Tasleem S, **Amin M**, Cappell MS. Voriconazole-induced hepatotoxicity presenting with severe hepatic encephalopathy in a patient with advanced alcoholic liver disease: Association with supra-high voriconazole levels and colored intrahepatic crystalline structures that stained brightly yellow under polarized light in the explanted liver after liver transplantation. *ACG Case Reports J*, February 25, 2019.

PATHOLOGY and LABORATORY MEDICINE

Peer-Reviewed Articles continued:

Wu J, Zhong JX, Chen EZ, Zhang J, Ye JJ, **Yu L**. Weakly and semi-supervised graph CNN for identifying basal cell carcinoma on pathological images. Graph Learning in Medical Imaging 2019. Lecture Notes in Computer Science, vol 11849, p112-119, October 2019.

Yin W, ***Kumar T, Lai Z, Zeng X, Kanaan HD, Li W**, et al. Kidney injury molecule-1 can be used to predict renal functional recovery in native renal biopsies. Int Urol Nephrol, October 23, 2019.

Ysunza PA, Rontal M, **Micale M**. Occult subtotal cleft of the secondary palate with VPI associated with 8q22.2 deletion. International Journal of Pediatric Otorhinolaryngology, 124:54-58, September 2019.

Zhang KJ, Wilson G, Kara S, Majesk A, **Zhang P**, Hafron JM, Diagnostic role of kidney injury molecule-1 in renal cell carcinoma. Int Urol Nephrol, August 5, 2019.

Abstracts with Associated Research Presentations:

Chaib O, Lai Z, Yu L. Glial heterotopia, a rare entity of developmental abnormality: Possible pitfalls in differential diagnosis. 31st Congress of the International Academy of Pathology, Arab division, Hurgahda, Egypt, October 24-26, 2019.

Chaib O, Li A, Arps D, **Yu L**. Cutaneous ganglioneuroma, report of three cases and review of literature. The American Society of Dermatopathology 56th Annual Meeting, San Diego, CA, October 2019.

Imam Z, Patwardhan S, **Qu Z**, Gaith G. Ixekizumab induced gastritis and colitis in an elderly female with plaque psoriasis. American College of Gastroenterology, San Antonio, TX, October 2019.

Kumar T, Li W, Kanaan HD, Zhang PL. High Kidney Injury Molecule-1 (KIM-1) staining/serum creatinine (sCr) ratio is associated with better renal functional recovery after acute tubule injury in native kidneys. USCAP Annual Meeting, National Harbor, MD, March 16-21, 2019.

Mallika S, Zhang PL, Qu Z. Prevalence of Helicobacter pylori in sleeve gastrectomy (SG) specimens and a case report of large ectopic pancreas polyp. CAP Annual Meeting, Orlando, FL, September 2019; Archives of Pathology & Laboratory Medicine, Livonia, MI, December 2019,143(9):13-14.

Mallika S, Li W. Metastatic colorectal cancer to sphenoid wing. CAP Annual Meeting, Orlando, FL, September 2019.

Mallika S, Huang W, **Qu Z**. Absence of insulin-like growth factor II messenger ribonucleic acid binding protein-3 (IMP3) immunostain is characteristic of mammary carcinomas. Archives of Pathology & Laboratory Medicine, Orlando, FL, September 2019;143(9):150.

PATHOLOGY and LABORATORY MEDICINE

Abstracts with Associated Research Presentations continued:

***Kumar T, Chang A, Zhang PL.** Glomerular endothelial injury can be identified by myeloperoxidase immuno-staining in various renal disorders related to complement activation. USCAP Annual Meeting, National Harbor, MD, March 16-21, 2019.

Lai Z, Li W, Zhang P. Receiver Operating Characteristic (ROC) curves reveal Kidney Injury Molecule-1 (KIM-1) being sensitive for identifying acute tubular injury. CAP Annual Meeting, Orlando, FL, September 2019.

Mallika S, Kim SK, Sangeetha V, Radhakrishna U, Bahado-Singh R, Macknis JK. Placental pathology in New-Onset Post-partum Pre-eclampsia (NOPP). Society for Pediatric Pathology Joint Fall Conference, Pittsburgh, PA, October 2019.

Micale M, Embrey B, *Kumar T. Single nucleotide polymorphism microarray analysis of pediatric leukemia reveals focus pathogenic copy number variation, acquired uniparental disomy, and chromothripsis. American College of Medical Genetics Meeting, Seattle, WA, April 2019.

Muir R, Hemmelgarn J, Li W, Kanaan HD, Misuraca MS, Zhang PL. IgG4 staining can serve as a screening biomarker for primary Membranous Glomerulopathy (MGN). National Kidney Foundation Spring Clinical Meeting, Boston, MA, April 2019.

Schoenherr D, Dereski M, Bernacki K, Hafez-Khayyata S, Attardi S. Online integrative histology module improves medical students' self-efficacy but not performance in respiratory histopathology. Central Group on Educational Affairs Spring Conference, Grand Rapids, MI, March 27-29, 2019.

Yin W, Zhang PL. Intravitreal injection of Avastin over time can be associated with thrombotic microangiopathy in the native kidney. Annual Meeting of American Society of Nephrology, TH-PO160, Washington, DC, November 5-10, 2019.

Yin W, Zhang P. Vedolizumab, a monoclonal antibody for treating Crohn's disease, can cause T-cell-mediated interstitial nephritis and chronic kidney disease. Annual Meeting of American Society of Nephrology, TH-PO165, Washington, DC, November 5-10, 2019.

Zhang P, Kannan HD, Li W. Incidence of nephrotoxicity secondary to PD-1/PD-L1 inhibition: A single health center experience. Annual Meeting of American Society of Nephrology, SA-PO178, Washington, DC, November 5-10, 2019.

Invited Research Presentations continued:

Wu J, Chen Z, Zhang J, Ye J, Yu, L. Identification of basal cell carcinoma in intra-operative frozen section using deep learning on smart phone images. Pathology Informatics Summit, Pittsburgh, PA, May 2019.

PEDIATRIC SERVICES

Peer-Reviewed Articles:

Armstrong AK, Berger F, Jones TK, Moore JW, Benson LN, Cheatham JP, et al, **[Turner DR]**. Association between patient age at implant and outcomes after transcatheter pulmonary valve replacement in the multicenter melody valve trials. *Catheter Cardiovasc Interv*, August 16, 2019.

Brahmamdham P, Carveth SL, Smyth M, Gendelman BS, Maisels MJ. Factors influencing choice of medical vs. surgical treatment of pediatric appendicitis. *Journal of Pediatric Surgery*, September 2019.

Dursun N, Bonikowski M, **Dabrowski E**, Matthews D, Gormley M, Tilton A, et al. Efficacy of repeat abobotulinumtoxinA (Dysport®) injections in improving gait in children with spastic cerebral palsy. *Developmental Neurorehabilitation*, November 6, 2019.

Goyal A, Salman B. Case 2: Chronic testicular torsion in a healthy neonate. *NeoReviews*, November 2019.

Gupta A, Meoch M, Levasseur K, Gonzalez IE. Screening pediatric patients in new-onset syncope study. *Clinical Pediatrics*, November 2019.

Hansen TWR, **Maisels MJ**, Ebbesen F, Vreman HJ, Stevenson DK, Wong RJ, et al. Sixty years of phototherapy for neonatal jaundice – from serendipitous observation to standardized treatment and rescue for millions. *Journal of Perinatology*, August 2019.

James CA, Powers S, Bloom DA, **Maisels MJ**. Generalized arterial calcification of infancy. *J Pediatrics and Neonatal Biology*, January 2019;4(1):1-3.

Kalladi S, **Khandhar P**, Gurkha D, Brown M, Dekelbab B. Expanding the clinical spectrum of Hashimoto's thyroiditis: Acute presentation of a chronic illness. *Journal of Endocrine Society* April 2019;3 (Suppl 1):SAT-583.

Kim SH, **Shaw A**, Blackford R, Lowman W, Laux LC, Millichap JJ, et al. The ketogenic diet in children 3 years of age or younger: A 10-year single-center experience. *Sci Rep*, 2019 June 19;9(1):8736.

Khandhar P, Rajanna V, Chan J, **Novotny N**. Intrapleural administration of tPA and Dornase Alfa in pediatric patients with empyema *Critical Care Medicine*, January 2019;47(1);320.

Lim JR, Boyanton B Jr, George J, Sims M. Epidemiology of groups A, C, and G beta-hemolytic streptococcal pharyngitis. *Open Forum Infectious Disease*, October 2019;6 (Suppl 2):S18-S19.

Luehmann NC, Pastewski JM, Cirino JA, Al-Hadidi A, DeMare AM, Riggs TW, et al, **[Novotny NM, Akay B]**. Implementation of a pediatric trauma cervical spine clearance pathway. *Pediatric Surgery International*, August 21, 2019.

Maisels MJ. A rebound hyperbilirubinemia prediction rule. *J Pediatr*, Nov 2019;214:238-241.

PEDIATRIC SERVICES

Peer-Reviewed Articles continued:

Navin MC, **Wasserman JA**. Capacity for preferences and pediatric assent: Implications for pediatric practice. *Hastings Center Report*, January/February 2019;43-51.

Navin MC, **Wasserman JA**, Ahmad M, Bies S. Reasons for vaccine refusal and vaccination behaviors. *American Journal of Preventive Medicine*, March 2019;56:359-367.

Nolan D, Chen B, Michon AM, Salatka E, Arndt D. A rasmussen encephalitis, autoimmune encephalitis and mitochondrial disease mimicker: Expanding the DNM1L-associated intractable epilepsy and encephalopathy phenotype epileptic disorders. *Epileptic Disord*, 2019 February 1;21(1):112-116.

Noorulla F, Dedon R, Maisels MJ. Association of early direct bilirubin levels and biliary atresia among neonates. *JAMA Network Open*, October 2019;2(10).

Nyalakonda R, Berman B. A teenage female with transient dysarthria, pallor and petechiae. *Clinical Pediatrics* June 2019;58(13)1458-1461.

Ozcan, Kahale K, Nguyen D. An 8-month-old girl with vesicular rash. *Glob Pediatr Health*, March 29, 2019.

Quinn TJ, Almahariq MF, Siddiqui ZA, Thompson AB, Hamstra DA, Kabolizadeh P, et al, **[Gowans KL]**. Trimodality therapy for atypical teratoid/rhabdoid tumor is associated with improved overall survival: A surveillance, epidemiology, and end results analysis. *Pediatr Blood Cancer*, August 28, 2019

Savoie C, Rajanna V, Khandhar P. Propofol-associated priapism in a prepubescent pediatric patient. *Global Pediatric Health*, June 27, 2019;6.

Wasserman JA, Navin MC, Vercler CJ. Pediatric assent and treating children over objection. *Pediatrics*, 31 October 2019;144(5).

Ysunza PA, Rontal M, Micale M. Occult subtotal cleft of the secondary palate with VPI associated to 8q22.2 deletion. *International Journal of Pediatric Otorhinolaryngology*, September 2019;124:54-58.

Book Chapter or Full Book Publications:

Trang A, Khandhar PB. Physiology, Acetylcholinesterase. StatPearls Publishing, Treasure Island; 2019.

Watchko JF, **Maisels MJ**. Neonatal hyperbilirubinemia care of the high-risk neonate. Seventh Edition, Elsevier; September 2019.

PEDIATRIC SERVICES

Abstracts with Associated Research Presentations:

Ahn TS, Freij BJ. Missed opportunities and fatal outcome for an infant with delayed-onset adenosine deaminase deficiency. Annual Scientific Meeting of the American College of Asthma, Allergy & Immunology, Houston, TX, November 2019.

Al-Hadidi A, Lapkus M, Karabon P, Naseem A, **Akay B, Khandhar P.** Success of respiratory rescue therapy in preventing reintubation in a pediatric intensive care unit. 48th Critical Care Congress, San Diego, CA, February 17-20, 2019.

Angus A, Demare A, Kawa S, Rizk M, Pastewski J, Burk C, et al, [**Khandhar P, Stallion A**]. Splenic trauma in a patient with heterotaxy: A case report and brief review of laterality defects. 48th Critical Care Congress, San Diego, CA, February 7-20, 2019

Baddi P. Timeline for resuming physical activities after renal transplantation: A mid-west pediatric nephrology consortium study. American Transplant Congress (ATC), Boston, MA, June 2019.

Bregenzer JK, McCormick ME. Quality of life in pediatric patients with neuromuscular disorders. MWSPR Annual Conference, Chicago IL, October 2019.

Costeloe A, **Thottam PJ.** The effect of reflux on incidence of dysphagia and feeding difficulty on the NICU population. Annual American Academy Otolaryngology-Head and Neck Surgery, New Orleans, LA, September 2019.

Davydova Y, Kennady G, Prabhu AS, Turner DR, Berman BW, Freij BJ. Serotype 21 pneumococcal tricuspid valve endocarditis with septic lung emboli in a previously healthy preadolescent girl. MWSPR Annual Conference, Chicago, IL, October 2019.

Forman S, Pang Y, Hauptert M, Thottam PJ. Drug induced sleep endoscopy for targeted pediatric sleep surgery. American Osteopathic College of Otolaryngology-Head & Neck Surgery Annual Clinical Assembly, Orlando, FL, May 5, 2019.

Forman S, Pang Y, Hauptert M, Thottam PJ. Arytenoid Inflammation due to gastroesophageal reflux in laryngomalacia patients. American Osteopathic College of Otolaryngology-Head & Neck Surgery Annual Clinical Assembly, Orlando, FL, May 5, 2019.

Freij B, Saleem-Rasheed F, Krasan G, Robinson-Dunn B, Patel R, Cunningham S. Multidrug-resistant escherichia coli ST131 late-onset neonatal sepsis in premature twins linked to contaminated maternal frozen breast milk. Infectious Disease Week, Washington, DC, October 2019.

Freij BJ, Saleem Rasheed F, Cunningham SA, Patel R, **Krasan G,** Robinson-Dunn B. A novel case of contaminated frozen breast milk linked to neonatal sepsis in preterm twins. Infectious Disease Week, Washington, DC, September 2019.

Goyal A, Laskowski EP. When it's not just the flu. MWSPR Annual Conference, Chicago IL, October 2019.

PEDIATRIC SERVICES

Abstracts with Associated Research Presentations continued:

Grobber K, Khandhar P. Moonbeams for sweet dreams. Children's Hospital Association annual meeting, Phoenix, AZ, November 2019.

Gurkha DR, Jones G, Levasseur K, Gebara B. Severe hyponatremia in an infant with pseudohypoaldosteronism due to urinary tract infection. Critical Care Congress, February 2019.

Guzzardo G, Kennady G, Jain I. Newborn with rare congenital central hypoventilation syndrome with mother to child transmission. MWSPR Annual Conference, Chicago IL, October 2019.

James CA, Powers S, Bloom DA, Maisels MJ. Generalized arterial calcification of infancy. J Pediatrics and Neonatal Biology, January 2019;4(1):1-3.

Jary JA, Taskin BD, Blatt NB, Freij BJ. Knee arthritis due to hyperuricemia in an adolescent girl following rapid weight loss on a high protein low carbohydrate diet. Academic Pediatric Association Region V Spring Conference, Royal Oak, MI, March 2019.

Jeon A, Muczinski T, Trang A, Karabon P, Khandhar P. Pediatric propofol sedation safety outcomes outside the operating room from July 2012-July 2016. Society of Pediatric Sedation (SPS) Aurora, CO, May 2019.

Jeon A, Trang A, Karabon P, Muczinski T, Khandhar P. Questioning the FDA warning: Propofol use in the pediatric patients. 48th Critical Care Congress, San Diego, CA, February 17-20, 2019.

Kennady G, Gibson D, Khandhar P. Prepubescent pediatric patient with pneumothorax in diabetic ketoacidosis. Society of Critical Care Medicine (SCCM) San Diego, CA, January 2019.

Khandhar P, Rajanna V, Chan J, Novotny N. Intrapleural administration of tPA and Dornase Alfa in pediatric patients with empyema. Society of Critical Care Medicine (SCCM) San Diego, CA, January 2019.

Kseri R, Seltzer M. Chart-review of bullying rate II (COBRA). PAS, Baltimore, MD, April 2019.

Lapkus M, Al-Hadidi A, Karabon P, Naseem A, **Khandhar P, Akay B.** Impact of reintubation and use of respiratory rescue therapy in the pediatric intensive care unit. 48th Critical Care Congress, San Diego, CA, February 17-20, 2019.

Lim J, Steck M, Khandhar P. Weetos: Edible cannabinoids and a child with lethargy. Society of Critical Care Medicine (SCCM) in San Diego, CA, January 2019.

Lim JR, Boyanton B Jr, George J, Sims M. Epidemiology of Groups A, C, and G beta-hemolytic streptococcal pharyngitis. ID Week, October 2-6, 2019, Washington, DC.

Maisels MJ, Kring E. Heme catabolism and bilirubin production in re-admitted jaundice newborns. Pediatric Academic Societies (PAS), Baltimore, MD, April 2019.

PEDIATRIC SERVICES

Abstracts with Associated Research Presentations continued:

Memon F, Silbergleit R, Bhatt M, Wilseck J, Kamierczak C, Mick J, et al, **[McCormick EM]**. Interspinous/interlaminar and transosseous approach to intrathecal administration of nusinersen for treatment of spinal muscle atrophy: Initial results. William Beaumont Hospital, Royal Oak, MI, American Society of Pediatric Neuroradiology Meeting, January 2019.

Noorulla F, Dedon R, Maisels MJ. Does biliary atresia start in utero? PAS, Baltimore, MD, April 2019.

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*Kim J, Mertens T, Du D, Doemer A, Dolan J, **Xhaferllari I**, et al. Evaluation of a novel MR-compatible 3D scanner. Henry Ford Health System, Detroit, MI; LAP GmbH, Germany; William Beaumont Hospital, Troy, MI; AAPM, San Antonio, TX, July 2019.

Knill C, Halford R, Snyder M, **Sandhu R**, Lack D. Simultaneous optimization of radiation-imaging coincidence for all versa HD photon energies. AAPM, San Antonio, TX, July 2019.

RADIATION ONCOLOGY

Abstracts with Associated Research Presentations continued:

Knill C, Sandhu R, Halford R, Seymour Z. Validating the Brainlab cranial SRS element for the versa HD. AAPM, San Antonio, TX, July 2019.

Li X, Ding X, Liu G, Janssens G, Souris K, Montero AB, et al. Linear energy transfer incorporated spot-scanning proton arc therapy (SPArc) optimization. AAPM, San Antonio, TX, July 2019.

Li X, Liu G, Janssens G, De Wilde O, Bossier V, Lerot X, et al, [**Yan, D, Stevens CW, Kabolizadeh P, Ding X**]. From concept to first delivery of the spot-scanning proton arc therapy. AAPM, San Antonio, TX, July 2019.

Li X, Liu G, Janssens G, De Wilde O, Bossier V, Lerot X, et al, [**Yan D, Stevens CW, Kabolizadeh P, Ding X**]. The first prototype of spot-scanning proton arc treatment delivery, ASTRO, Chicago, IL, September 2019.

Li X, Liu G, Janssens G, De Wilde O, Bossier V, Lerot X, et al, [**Yan D, Stevens CW, Kabolizadeh P, Ding X**]. Preliminary quality assurance results of the spot-scanning arc therapy (SPArc) delivery. PTCOG, October 2019.

Liu G, **Li X,** Qin A, **Grills IS, Stevens CW, Yan D,** et al, [**Kabolizadeh P, Ding X**]. Effectiveness of using spot-scanning proton arc (SPArc) therapy to mitigate the motion interplay effect in lung stereotactic body radiotherapy (SBRT): A quantitative comparison study between IMPT vs SPArc based a digital phantom. AAPM, San Antonio, TX, July 2019,

Liu G, **Li X,** Qin A, **Grills IS, Stevens C,** Yan D, et al, [**Kabolizadeh P, Ding X**]. A feasibility study to exploit the dosimetric and treatment efficiency benefit of using Spot-scanning Proton Arc (SPArc) therapy for multiple lung metastasis treatment. AAPM, San Antonio, TX, July 2019.

Liu G, **Li X, Stevens CW, Grills IS, Yan D, Kabolizadeh P,** et al, [**Ding X**]. Lung Stereotactic Body Radiotherapy (SBRT) using Spot-scanning Proton Arc (SPArc) therapy: A feasibility study, PTCOG, Miami, FL, October 14-16, 2019.

Majeske AJ, *Geddes TJ, Keidan R, **Wilson GD.** Development of a gene signature to predict positive or negative sentinel nodes as a prognostic marker in melanoma. Annual Meeting of the American Association for Cancer Research (AACR), Atlanta, GA, March 29-April 3, 2019.

Prabhu AH, **Kant S, Kesarwani P, Chinnaiyan P.** Branched chain amino acids represent indispensable metabolic substrates in glioblastoma. Annual Meeting of the American Association for Cancer Research (AACR), Atlanta, GA, March 29-April 3, 2019.

*Prabhu A, **Guastella A, Kant S, Kesarwani P,** Nakano I, **Chinnaiyan P.** Aberrant amino acid metabolism expose novel functional vulnerabilities in glioblastoma. Annual Meeting of the Society of Neuro-Oncology (SNO), Phoenix, AZ, November 22-24, 2019.

Qin A, Lachaine M, **Yan D.** Real-time prediction of patient respiration-induced target motion with using recurrent neural network (RNN) and online training: Feasibility study for MRI guided tumor-tracking radiotherapy. AAPM, San Antonio, TX, July 2019.

RADIATION ONCOLOGY

Abstracts with Associated Research Presentations continued:

Quinn TJ, **Ding X, Li X**, Wilson GD, Buelow K, Sivananthan AP, et al, [**Stevens CW, Kabolizadeh P**]. JP4-039-Induced amelioration of mucositis and abscopal bone marrow suppression in fanconi anemia fanca^{-/-}-mice during pencil beam scanning proton therapy. ASTRO, Chicago, IL, September 2019.

Robertson J. Patient satisfaction in radiation oncology. ASTRO, Chicago, IL, September 2019.

Sandhu R, Knill C, Halford R, Seymour Z, Lee K, Hyde C. Commissioning and clinical experience of Brainlab's multimet element planning system for cranial SRS treatments on Elekta's VersaHD. AAPM, San Antonio, TX, July 2019.

Seymour ZA, Sneed P. Toxicity in volume-staged radiosurgery for very large arteriovenous malformations: A multi-institutional study. ISRS, September 2019.

Sohn J, Liu T, **Li X**, Lin L, **Ding X**, Langen K, et al. A most likely path (MLP) validation of spot decomposition for pencil beam scanning (PBS) in proton radiography (pRG) and proton CT (pCT). AAPM, San Antonio, TX, July 2019.

Thompson A, **Ding X**, Abbott V, Puzzonja JA, Palermino J, Frankenfield A, et al, [**Kabolizadeh P, Krauss D**]. Proton stereotactic body radiotherapy as a nephron-sparing approach for patients with localized renal cell carcinoma: A dosimetric analysis. ASTRO, Chicago, IL, September 2019.

To D, Xhaferllari I, Liu M, Liang J, **Knill C, Yan D**, et al. Evaluation of VMAT planning strategies for prostate patients with bilateral hip prostheses. AAPM, San Antonio, TX, July 2019.

Wang WG, Qin A, **Kabolizadeh P, Li X, Yan D**, Liu G, et al, [**Deraniyagala R, Grills IS, Stevens CW, Krauss D, Ding X**]. Which planning strategy is better for head and neck cancer: PTV based or CTV based robust IMPT? ESTRO, Milan, Italy, April 2019.

Xhaferllari I, Liu M, Liang J, Knill C, Yan D, Nandalur S, et al, [**Gustafson G, Lack D**]. Evaluation of VMAT planning strategies for prostate patients with bilateral hip prostheses-D To1*. Beaumont Health, Troy, MI, July 2019; Beaumont Health, Royal Oak, MI; Beaumont Health, Dearborn, MI, July 2019; AAPM, San Antonio, TX, July 2019.

Zheng W, Li X, Yan D, Moore D, Les K, Stevens WC, Kabolizadeh P, et al, [**Ding X**]. Clinical workflow to evaluate and incorporate a high-density implant into pencil beam scanning proton therapy planning. AAPM 61st Annual Meeting, San Antonio, TX, July 2019; PTCOG-NA, Miami, FL, October 2019.

Invited Research Presentations:

Chen P. The evolving role of immunotherapy in breast cancer therapeutics. ASTRO Conference, Chicago, IL, September 2019.

Chinnaiyan P. Malignant glioma: Current approaches and factors contributing towards therapeutic resistance. University of South Carolina, Columbia, SC, April 2019.

RADIATION ONCOLOGY

Invited Research Presentations continued:

Deraniyagala R, Hamstra DA. Proton therapy for pediatric malignancies. Western Michigan. Grand Rounds, Kalamazoo, MI, January 2019.

Hamstra DA. Pediatric radiation oncology. The role for proton therapy. Pediatric Grand Rounds. Western Michigan University School of Medicine. Kalamazoo, MI, January 2019.

Hamstra DA. High risk prostate cancer. Radiation oncology update 2019. American College of Radiation Oncology (ACRO) Annual Meeting, Orlando, FL, March 2019.

Hamstra DA. eContouring session – Prostate cancer. ASTRO Educational Teleconference. Chicago, IL, June 2019.

Hamstra DA. Proton therapy: Beyond the DVH. The Department of Radiation Oncology, Washington University, St Louis, MO, June 2019.

Hamstra DA. Pediatric radiation oncology–poster walk with expert. ASTRO's 61st Annual Meeting, Chicago, IL, September 2019.

Kabolizadeh P, Reitemeier P, Navin M, Hamstra DA, Anderson J, Stevens C. A medical ethics ranking system for allocation of scarce proton therapy system. PTCOG 2019, Miami, FL, October 14-16, 2019.

Knill C. Clinical advantages of elements with ExacTrac. Novalis Circle Symposium at SNO, New York City, NY, August 2019.

Knill C. Elements software commissioning and quality assurance. Brainlab Regional Symposium, Indianapolis, IN, August 2019.

Knill C. Multiple brain metastasis SRS commissioning. Brainlab Regional Symposium, Hartford, CT, November 2019.

Seymour ZA, Pinkawa M, Daignault-Newton S, Bosch W, Michalski J, Gay H, et al, [Hamstra DA]. Long-term follow-up after radiotherapy for prostate cancer with and without rectal hydrogel spacer. A pooled prospective evaluation of sexual quality of life. ASTRO, Chicago, IL, September 2019; ASCO GU 2019, San Francisco, CA, February 14-16, 2019.

Seymour ZA, Sneed P. Architecture and dose response in volume-staged radiosurgery for very large arteriovenous malformations: A multi-institutional study. ISRS 2019, Rio de Janeiro, Brazil, June 9-13, 2019.

Seymour ZA, Sneed P. Toxicity in volume-stated radiosurgery for very large arteriovenous malformations: A multi-institutional study. ISRS 2019, Beijing, China, May 2019.

Wilson GD, *Marples B. Liquid biopsies for predicting radiation response. ASTRO, Chicago, IL, September 2019.

RADIATION ONCOLOGY

Invited Research Presentations continued:

Xuanfeng D. In vivo imaging in particle therapy. Ideal ion imaging workshop. ASTRO, Chicago, IL, September 2019.

Xuanfeng D. Clinical operation of a ProteusONE proton therapy center and the future proton therapy technique development. Japan Annual Meeting of Society of Radiation Oncology, Nagoya, Japan, November 2019.

Xuanfeng D. New developments in proton therapy. Proton Radiotherapy Physics Workshop, Willis-Knighton Cancer Center, Shreveport, LA, November 2019.

Xuanfeng D. A journey to SPArc - Spot-scanning proton arc therapy. University of Maryland, Baltimore, MD, July 2019.

Xuanfeng D. In the novel technique breakthrough in particle therapy, spot-scanning proton arc therapy: From a concept to reality. AAPM Annual Meeting, San Antonio, TX, July 2019.

Xuanfeng D. In particle therapy, clinical commission and quality assurance of a compact PBS gantry – IBA ProteusONE. Chinese Association of Biomedical Engineering Annual Meeting, Chengdu, China, September 2019.

Xuanfeng D. Clinical commission and operation of a proton system and the development of proton arc therapy. Shenzhen Cancer Center, Shenzhen, China, September 2019.

Xuanfeng D. Spot-scanning proton arc therapy: From a concept to reality. Mayo Clinic, Scottsdale, AZ, September 2019; AAPM Arizona Chapter Annual Meeting, Scottsdale, AZ, September 2019.

Xuanfeng D. Introduction to the proton beam therapy and its application in stereotactic radiosurgery and stereotactic body radiation therapy. AAPM sponsored Shenzhen winter school, Shenzhen, China, January 2019.

Xuanfeng D. Radiobiology in the era of stereotactic radiosurgery and stereotactic body radiation therapy. AAPM sponsored Shenzhen winter school, Shenzhen, China, January 2019.

Xuanfeng D. Proton stereotactic radiosurgery. No. 6. People's hospital, Shanghai, China, July 2019.

Yan D. Current treatment technology, opportunity and challenges. CATRO, April 2019, Shenzhen, China.

Yan D. Metabolic imaging-based tumor dose response assessment and treatment adaptation. GFRO, Guanzhou, China, October 2019.

Non Peer-Reviewed Publications:

Knill C, Halford R, Snyder M, Sandhu R, Lack D. Simultaneous optimization of radiation-imaging coincidence for all versa HD photon energies. AAPM Annual Meeting, July 2019.

RADIATION ONCOLOGY

Non Peer-Reviewed Publications continued:

Knill C, Halford R, Snyder M, Sandhu R, Lack D. Simultaneous optimization of radiation-imaging coincidence for all versa HD photon energies. AAPM Annual Meeting, July 2019.

Knill C, Sandhu R, Halford R, Seymour Z. Validating the Brainlab cranial SRS element for the versa HD. AAPM Annual Meeting, July 2019.

Sandhu R, Knill C, Halford R, Seymour Z, Lee K, Hyde C. Commissioning and clinical experience of Brainlab's multimet element planning system for cranial SRS treatments on Elekta's VersaHD. AAPM Annual Meeting, San Antonio, TX, July 2019.

RESEARCH INSTITUTE

RESEARCH ADMINISTRATION

Peer-Reviewed Articles:

Berkowitz BA, Romero R, **Podolsky RH, Lins-Childers KM**, Shen Y, Rosales T, et al. QUEST MRI assessment of fetal brain oxidative stress in utero. *Neuroimage*, 2019 October 15;200:601-606.

Berkowitz BA, **Podolsky RH, Lins-Childers KM**, Li Y, Qian H. Outer retinal oxidative stress measured in vivo using QUEnch-assiSTed (QUEST) OCT. *Invest Ophthalmol Vis Sci*, 2019 April 1;60(5):1566-1570.

Cohen LJ, **Coffey MP**. Factors associated with hemodialysis withdrawal: Analysis of a single institution's experience. National Kidney Foundation Spring Clinical Meetings, Boston, MA, May 2019.

Loeffler DA, Aasly JO, LeWitt PA, **Coffey MP**. What have we learned from cerebrospinal fluid studies about biomarkers for detecting LRRK 2 Parkinson's disease patients and healthy subjects with Parkinson's associated LRRK 2 Mutations? *Journal of Parkinson's Disease*. January 2019;9(3):467-488.

Lu L-JW, **Chen NW**, Nayeem F, Nagamani M, Anderson KE. Soy isoflavones interact with calcium and contribute to blood pressure homeostasis in women: A randomized, double-blind, placebo-controlled trial. *European Journal of Nutrition*, January 2019.

Nayeem F, **Chen NW**, Nagamani M, Anderson KE, Lu L-JW. Daidzein and genistein have differential effects in decreasing whole body bone mineral density but not hip and spine density in premenopausal women: A 2-year randomized, double-blind, placebo-controlled study. *Nutrition Research*, August 2019.

Vivacqua A, Robinson J, Abbas AE, Altshuler JM, Shannon FL, **Podolsky RH**, et al. Single dose cardioplegia protects myocardium as well as traditional repetitive dosing: A non-inferiority randomized study. *Journal of Thoracic and Cardiovascular Surgery*, May 2019.

Kolderman NC, Cheti DR, Hasbrook CD, Forsyth AJ, **Coffey MP**, Nair GB, et al. CT-guided lung biopsies: 18 gauge vs 20 gauge needle size on rates of pneumothorax and sample adequacy. *ATS International Conference*, Dallas, TX, May 2019.

SUBSPECIALTY DIVISIONS OF SURGICAL SERVICES

BREAST CARE CENTER

GENERAL SURGERY

NEUROSURGERY

OTOLARYNGOLOGY

PEDIATRIC SURGERY

PLASTIC SURGERY

THORACIC SURGERY

VASCULAR SURGERY

BREAST CARE CENTER

Peer-Reviewed Articles:

Danko M, Karabon P, ***Pople B, Dekhne N**. Evaluating patient satisfaction in autologous breast reconstruction vs. implant reconstruction. *Annals of Surgical Oncology*, 2019 May 1, Vol. 26, p151-152.

Pople B*, Kiran S, Kopicky L, Chen P, **Dekhne N**. A single-institution review of APBI using brachytherapy versus IORT: A patterns-of-care analysis. *Annals of Surgical Oncology*, 2019 May 1, Vol. 26, p146-147.

Shaffer K, Danko, M, DeLaere A, Chant E, ***Pople B**, Grisby S, et al, [**Dekhne N**]. Patient satisfaction following nipple-sparing mastectomy and assessment of nipple-areolar sensation. *Breast Journal* 25(3), July 2019.

Smith K, Ferrer JM, Smith BL, Hwang ES, Hunt KK, Dodge DG, et al, [**Dekhne, N**]. Expansion into multiple institutions for training in the use of the LUM Imaging System for intraoperative detection of residual cancer in the tumor bed of female subjects with breast cancer. *Cancer Res* 2019;79(Suppl 13)CT220.

Abstracts with Associated Research Presentations:

Dzubnar J, Karabo P, ***Pople B, Amin M, Dekhne, N**. Assessing the role of surgical margins post-mastectomy in clinical decisions for additional treatment. Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019.

Sebai ME, Karabon P, **Sayee K, Dekhne N**. Contralateral prophylactic mastectomy trends and outcomes for non-metastatic inflammatory breast cancer: Stage stratified propensity scoring analysis of NCDB. *Annals of Surgical Oncology*, Las Vegas, NV, December 2019.

Sebai ME, Finn D, Karabon P, **Lee D, Sayee K, Dekhne N**. Trends, survival outcomes, and predictors of non-adherence to mastectomy guidelines for non-metastatic inflammatory breast cancer: Stage stratified propensity scoring analysis of NCDB. *Annals of Surgical Oncology*, Las Vegas, NV, December 2019.

Sebai ME, Karabon P, **Luan T, Sayee K, Dekhne, N**. Gender differences and survival outcomes in breast cancer patients: Stage stratified propensity scoring analysis of NCDB. *Annals of Surgical Oncology*, Las Vegas, NV, December 2019.

Sebai ME, Karabon P, **Quach D, Busuito C, Busuito M, Dekhne N**. National trends and survival outcomes of performing immediate breast reconstruction for male breast cancer patients. *Annals of Surgical Oncology*, Las Vegas, NV, December 2019.

Sebai ME, Almahariq MF, Dilworth J, Karabon P, **Kalthoff R, Sayee K**, et al, [**Chen P, Dekhne N**]. National trends for intra-operative radiation therapy in favorable, early stage breast cancer: A propensity scoring analysis of the national cancer database. *Annals of Surgical Oncology*, Las Vegas, NV, December 2019.

BREAST CARE CENTER

Invited Research Presentations:

Sebai ME, Almahariq MF, Dilworth J, Karabon P, Kalthoff R, Sayee K, et al, **[Dekhne N]**. National trends for intra-operative radiation therapy in favorable, early stage breast cancer: a propensity scoring analysis of the national cancer database. 4th Annual TARGIT Collaborative Group Conference, New Orleans, LA, February 2019.

Smith K, Ferrer J, Carr D, Blumencranz P, Dodge D, **Dekhne N**, et al. Valente S, Beitsch P. Expansion into multiple institutions for training in the use of the LUM Imaging System for intraoperative detection of residual cancer in the tumor bed of female subjects with breast cancer. San Antonio Breast Cancer Symposium, San Antonio, TX, December 10-14, 2019.

GENERAL SURGERY

Peer-Reviewed Articles:

Batley TWK, Dreizin D, Bodanapally UK, Wnorowski A, Issa G, **Iacco A**, et al. A comparison of segmented abdominopelvic fluid volumes with conventional CT signs of abdominal compartment syndrome in a trauma population. *Abdom Radiol* 2019;44:2648–2655.

***DeMare AM, Halka JT, Vasyluk A, Iacco A, Janczyk R**. Hybrid robotic transversus abdominus release has shorter length of stay compared to open transversus abdominus release: An AHSQC analysis. *Hernia*, 2019 March;23(1):S42–S43.

Halka JT, *DeMare AM, Vasyluk A, Iacco A, Janczyk R. Robotic-Assisted rives ventral hernia repair versus open rives ventral hernia repair. *Hernia*, 2019 March;23(1):S13–S14.

Halka JT, Vasyluk A, *Demare A, Iacco A, Janczyk R. Hybrid robotic-assisted transversus abdominis release versus open transversus abdominis release: A comparison of short-term outcomes. *Hernia*, 2019 February 7;23(1):37-42.

Halka JT, Yee D, Angus A, Mohammed A, Sevak S, Robbins J, et al. Alexis St. Martin Gastropexy: A surgical laparoscopy, endoscopy & percutaneous techniques. 2019 April 1;29(2):e20-3.

Kawak S, *DeMare AM, Villalba MR. Laparoscopic resection of a gangrenous falciform ligament. *HPB*, 2019 March 1;21:S187.

Mazahreh TS, Aleshawi AJ, Al-Zoubi NA, Allouh MZ, Jadallah KA, Elayyan R, et al, [**Novotny NM**]. Preoperative esophagogastroduodenoscopy in patients without reflux symptoms undergoing laparoscopic sleeve gastrectomy: Utility or futility?. *Clin Exp Gastroenterol*, July 3, 2019.

Ysunza P, **Chaiyasate K**, Rontal M, **Shaheen K**, Bartholomew B. Comparison of three different surgical techniques for designing pharyngeal flaps according to findings of video-nasopharyngoscopy and multiplanar videofluoroscopy. *Journal of Pediatric Otorhinolaryngology*, 2019;120:123-129.

Vivaqua A, Robinson J, Abbas AE, Altshuler JM, Shannon FL, Pololsky RH, et al, [**Sakwa MP**]. Single-dose cardioplegia protects myocardium as well as traditional repetitive dosing: A noninferiority randomized study. *J Thoracic Cardiovasc Surg*, May 11, 2019.

Abstracts with Associated Research Presentations:

Al-Hadid A, Alslaim H, Ghawanmeh M, Alfarajat F, Habra H, **Novotny N**. Short-term international medical trips: Local collaboration and it's effects on complications and patient satisfaction. Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019. **Winner of Krishna K. & Pamela E. Sawhney Ethics Award**

Angus A, Iacco A, Janczyk R. Single institution experience of robotic-assisted inguinal hernia repair following prostate cancer therapy. Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019.

GENERAL SURGERY

Abstracts with Associated Research Presentations continued:

***Baker D, Pastewski J, Somerset A, Leonard K, Roach V, Ziegler K, et al, [Brahmamdram P].** Motion analysis of general surgery residents performing the laparoscopic peg transfer task and the effect of a secondary task. SAGES Annual Meeting, Baltimore, MD, April 2019.

***DeMare A.** Hybrid robotic versus open transversus abdominus release: An AHSQC analysis. Southeast Michigan Center for Medical Education Research Forum. Lovett Hall, Henry Ford, Dearborn, MI, May 22, 2019.

***DeMare AM, Halka JT, Vasyluk A, Iacco A, Janczyk R.** Hybrid robotic transversus abdominus release has shorter length of stay compared to open transversus abdominus release: An AHSQC analysis. Americas Hernia Society Annual meeting, Las Vegas, NV, March 11-14, 2019.

***DeMare A, Halka J, Vasyluk A, Iacco A, Janczyk R.** Hybrid Robotic vs Open Transversus Abdominus Release: An AHSQC Analysis. Michigan Surgical Quality Collaborative 2019 Conference, Detroit, MI, October 10-11, 2019.

***DeMare A, *Long J, Luehmann N, *Abbott E, Akay B, Iacco A, et al, [Brahmamdram P, Novotny N].** Cost-effective approach to the laparoscopic appendectomy: Balancing disposable instrument cost with operative time. 4th Annual Michigan Summit on Quality Improvement, Patient Safety, and Wellness, Troy, MI, May 29, 2019; Midwest Surgical Association 2019 Annual Meeting, July 28-30, 2019, French Lick, IN; Detroit Surgical Association Detroit, MI, May 6, 2019.

***DeMare A, Novotny N.** Laparoscopic peritoneal teratoma removal. American College of Surgeons Clinical Congress, San Francisco CA, October 27-31, 2019.

***DeMare A, Reilly D, *Luehmann N, *Long J, Akay B, Iacco A, et al, [Brahmamdram P, Novotny N].** Cost-effective approach to the laparoscopic appendectomy: Balancing disposable instrument cost with operative time. Michigan Surgical Quality Collaborative 2019 Conference, Detroit, MI, October 10-11, 2019.

Halka JT, *DeMare AM, Vasyluk A, Iacco A, Janczyk R. Robotic-assisted rives ventral hernia repair versus open rives ventral hernia repair. Americas Hernia Society Annual meeting, March 11-14, 2019, Las Vegas, NV.

Leonard K, ***Baker D, Pastewski J, Brahmamdram P, Ziegler K, Roach V.** Correlating laparoscopic tool path length in peg-transfer task with surgical residency education level. Robert J. Lucas Surgical Society Research Symposium, Royal Oak, Michigan. February 2019; Proceedings of ACS Surgical Simulation Summit, Chicago, IL, March 2019.

***Luehmann N, *DeMare A, *Abbott E, *Long J, Akay B, Iacco A, et al, [Brahmamdram P, Novotny N].** Cost-effective approach to the laparoscopic appendectomy: Balancing disposable instrument cost with operative time Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019.

GENERAL SURGERY

Abstracts with Associated Research Presentations continued:

Majeske A, **Hothem Z**, **Abbott E**, **Bayci A**, Uzieblo AF, Shadaia S, et al, [**Keidan RD**, **Wilson GD**]. Development of a agene signature to predict positive or negative sentinel nodes as a prognostic marker in melanoma. American Association for Cancer Research (AACR) Annual Meeting 2019, Atlanta Georgia, March 29-April 3, 2019.

O'Neill M, Dinnan K, Heal K. Central line stewardship: Standardization to reduce clabsi in the ICU. Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019.

NEUROSURGERY

Peer-Reviewed Articles:

Hawryluk GWJ, Aguilera S, Buki A, Bulger E, Citerio G, et al, **[Michael DB]**. A management algorithm for patients with intracranial pressure monitoring: The Seattle International Severe Traumatic Brain Injury Consensus Conference (SIBICC). Intensive Care Med 2019 December;45(12):1783-1794.

Hutchinson PJ, Koliass AG, Tajsic T, Adeleye A, Aklilu AT, Apriawan T, et al, **[Michael DB]**. Consensus statement from the International Consensus Meeting on the role of decompressive craniectomy in the management of traumatic brain injury: Consensus statement. Acta Neurochir (Wien), 2019 July;161(7):1261-1274.

Madhavan K, **Chieng LO**, Armstrong VL, Wang MY. Spondylodiscitis in end-stage renal disease: A systematic review. J Neurosurg Spine, 2019 February 15;1-9.

Perez-Cruet M, Beeravolu N, McKee C, Brougham J, Khan I, Bakshi S, et al. Potential of human nucleus pulposus-like cells derived from umbilical cord to treat degenerative disc disease. Neurosurgery, 2019 January 1;84(1):272-283.

Zakaria HM, Mansour TR, Telemi E, Asmaro K, Bazydlo M, Schultz L, et al, **[Khalil JG, Easton R]**. The association of preoperative opioid usage with patient-reported outcomes, adverse events, and return to work after lumbar fusion: Analysis from the Michigan Spine Surgery Improvement Collaborative (MSSIC). Neurosurgery, 2019 October 9.

Zakaria HM, Mansour T, Telemi E, Xiao S, Bazydlo M, Schultz L, et al, **[Perez-Cruet M, Easton R]**. Patient demographic and surgical factors that affect completion of patient-reported outcomes 90 days and 1 year after spine surgery: Analysis from the Michigan Spine Surgery Improvement Collaborative (MSSIC). World Neurosurg, 2019 October;13.

OTOLARYNGOLOGY

Peer-Reviewed Articles:

Barinsky GL, Buziashvili D, Svider PF, Carron MA, **Folbe AJ**, Hsueh WD, et al. Perioperative desmopressin for patients undergoing otolaryngologic procedures: A systematic review. *Otolaryngol Head Neck Surg*, July 2019;161(1):36-45.

Casiano RR, **Folbe AJ**, Golfinos JG, Snyderman CH, for NASBS Best Practices for Coding & Billing Task Force. An editorial on NASBS white paper: Coding and reimbursement for endoscopic endonasal surgery of the skull base. *J Neurol Surg B Skull Base*, February 2019;80(Suppl 2):S246.

Fritz CG, Bojrab DI 2nd, Lin KF, Schutt CA, Babu SC, Hong RS. Surgical explantation of bone-anchored hearing devices: A 10-year single institution review. *Otolaryngol Head Neck Surg*, October 2019;1.

Mir A, Guys N, **Arianpour K**, Svider PF, Rayess H, Zuliani G, et al. Negative pressure wound therapy in the head and neck: An evidence-based approach. *Laryngoscope*, March 2019;129(3):671-683.

Nguyen BK, Yuhan BT, Folbe E, Eloy JA, Zuliani GF, Hsueh WD, et al, [**Folbe AJ**]. Perioperative analgesia for patients undergoing septoplasty and rhinoplasty: An evidence-based Review. *Laryngoscope*, June 2019;129(6):E200-E212.

Pollock KJ, NASBS Best Practices for Coding & Billing Task Force, Casiano RR, **Folbe AJ**, Golfinos JG, Snyderman CH. Coding and reimbursement for endoscopic endonasal surgery of the skull base. *J Neurol Surg B Skull Base*, February 2019;80(Suppl 2):S247-S254.

Ramsey T, Hojjat H, Yuhan B, Svider PF, Eloy JA, **Folbe AJ**, et al, [**Raza SN, Fribley AM**]. Disparities in impact of nasopharyngeal cancer: An analysis of global health burden. *Laryngoscope*, November 2019;129(11):2482-2486.

Rubin AD, Codino J. The art of caring for the professional singer. *Otolaryngol Clin North Am*, August 2019;52(4):769-778.

Rubin AD, Jackson-Menaldi C, Kopf LM, Marks K, Skeffington J, Skowronski MD, et al. Comparison of pitch strength with perceptual and other acoustic metric outcome measures following medialization laryngoplasty. *J Voice*, 2019 September;33(5):795-800.

Sayal NR, Boyd S, Zach White G, Farrugia M. Incidental mastoid effusion diagnosed on imaging: Are we doing right by our patients? *Laryngoscope*, 2019 April;129(4):852-857.

Segura-Hernandez M, Valadez-Jimenez VM, **Ysunza PA**, Sanchez-Valerio AP, Arch-Tirado E, Lino-Gonzalez AL, et al. Acoustic analysis of voice in children with cleft lip and palate following vocal rehabilitation. Preliminary report. *Int J Pediatr Otorhinolaryngol*, November 2019;126:109618.

Shenouda K, Yuhan BT, Mir A, Gonik N, Eloy JA, Liu JK, et al, [**Folbe AJ**]. Endoscopic resection of pediatric skull base tumors: An evidence-based review. *J Neurol Surg B Skull Bas*, October 2019;80(5):527-539.

OTOLARYNGOLOGY

Peer-Reviewed Articles continued:

Smith BC, George LC, Svider PF, Nebor I, **Folbe AJ**, Sheyn A, et al. Rhinogenic headache in pediatric and adolescent patients: An evidence-based review. *Int Forum Allergy Rhinol*, May 2019;9(5):443-451.

Smith ME, **Bacal D**, Bonham AJ, Varban OA, Carlin AM, Ghaferi AA, et al. Perioperative and 1-year outcomes of bariatric surgery in septuagenarians: Implications for patient selection. *Surg Obes Relat Dis*, October 2019;15(10):1805-1811.

Spolyar JL. Nasoalveolar molding (NAM), Latham treatment or other: Controlling the narrative. *Cleft Palate Craniofac J*, November 2019;5.

Ysunza PA, Chaiyasate K, Rontal M, Shaheen K, Bartholomew B. Comparison of three different surgical techniques for designing pharyngeal flaps according to findings of videonasopharyngoscopy and multiplanar videofluoroscopy. *Int J Pediatr Otorhinolaryngol*, May 2019;120:123-129.

Ysunza PA, Rontal M, Micale M. Occult subtotal cleft of the secondary palate with VPI associated to 8q22.2 deletion. *Int J Pediatr Otorhinolaryngol*, September 2019;124:54-58.

PEDIATRIC SURGERY

Peer-Reviewed Articles:

Abukhalaf SA, Alqarajeh F, Alzughayya TZ, Abukarsh R, Ghazzawi I, **Novotny NM**. H-type anorectal malformation associated with H-type tracheoesophageal fistula. *Journal of Pediatric Surgery Case Reports*, 2019;44:101169.

Abukhalaf SA, Alzughayyar TZ, Baniowda MA, Abukarsh R, Ghazzawi I, **Novotny NM**, et al. Postoperative intestinal intussusception in children, an easily missed culprit of postoperative intestinal obstruction: Case series and literature review. *International Journal of Surgery Case Reports*, 2019;60:336-339.

Abukhalaf S, Mustafa A, Elqad M, Hammouri A, Khalil NM et al, **[Novotny NM]**. Paraduodenal hernias in children: Etiology, treatment, and outcomes of a rare but real cause of bowel obstruction. *International Journal of Surgery Case Reports*, 2019, Volume 64:105-108.

Alser O, Hamouri S, Novotny NM. Esophageal caustic injuries in pediatrics: A sobering global health issue. *Asian Cardiovascular and Thoracic Annals*, 2019;27(6):431-435.

Brahmandam P, Carveth SL, Smyth M, Gendelman BS, Maisels MJ. Factors influencing choice of medical vs. surgical treatment of pediatric appendicitis. *Journal of Pediatric Surgery*, 2019;54(9):1800-1803.

Cirino J, Luehmann NC, Pastewski JM, Al-Hadidi A, Riggs TW, Novotny NM, et al, [Akay B]. Implementation of a pediatric trauma cervical spine clearance pathway. *ACS Quality and Safety Case studies: Bulletin of the American College of Surgeons* May 1, 2019;Vol 104(5).

Edwards CT, Alslaim HS, Alebbini MM, **Evbuomwan MO, Chan JC**, Hamouri S, et al, **[Novotny NM]**. Contrasting esophageal coin removal in countries with different sized coins in circulation. *Int J Pediatr Otorhinolaryngol*, November 7, 2019;129:109775.

Khandhar P, Chan J, Rajanna V, Novotny N. 680: Intrapleural administration of TPA and Dornase Alfa in pediatric patients with empyema. *Crit Care Med*, 2019 January;47(1):320.

Leumann NC, Pastewski JM, Cirino JA, Al-Hadidi A, DeMare AM, Riggs TW, Novotny NM, Akay B. Implementation of a pediatric trauma cervical spine clearance pathway. *Pediatr Surg Int*, August 21, 2019.

Luehmann NC, Staubach M, **Akay B**, Collier P, Han R, Riggs TW, **Novotny NM**. Benefits of a family-centered approach to pediatric induction of anesthesia. *Journal of Pediatric Surgery*, Volume 54, Issue 1, January 2019;189-193.

Stallion A. 2018 SBAS Presidential Address - Sustainability, relevancy and the society of black academic surgeons: The making of an academic surgeon. *Am J Surg*, September 2019; 218(3):467-475.

PEDIATRIC SURGERY

Abstracts with Associated Research Presentations:

Al Hadidi A, Lapkus M, Khandhar P, Akay B. PICU high flow nasal cannula and extubation. Midwest Society for Pediatric Research, Chicago, IL, October 24, 2019.

DeMare A, Lapkus M, Jones K, England A, **Akay B, Brahmamdam P.** Laparoscopic pediatric gastrostomy with T-fasteners: A Technique to Decrease Surgical Site Infection. Southeast Michigan Center for Medical Education Research Forum, Lovett Hall, Henry Ford, Dearborn, MI, May 22, 2019. **First Place Poster: Donald Dawson Medallion.**

Edwards C, Alslaim H, Alebbini M, Coffey M, Evbuomwan M, Hamouri S, et al, **[Novotny NM].** Older but not wiser: Larger coins associated with older children for esophagoscopy. World Federation of Associations of Pediatric Surgeons International Pediatric Endoscopy Group 2019 meeting, Santiago, Chile, March 19-23, 2019.

Elton T, **Brahmamd P.** Pre-bent nuss bar decreases operative time in minimally-invasive pectus excavatum repair. Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019.

Elton T, **Studzinski D, Morden RS, Brahmamd P.** Outcomes after minimally invasive repair of pectus excavatum. 4th Annual Robert J. Lucas Surgical Symposium, March 5, 2019, Royal Oak MI.

Kawak S, DeMare A, Villalba M. Necrotic falciform ligament in a 7-year-old. Americas Hepato-Pancreato-Biliary Association (AHPBA) Annual Meeting 2019, Miami FL, March 20-24, 2019; HPB, 2019 Mar;21(1):S187–S187.

Kawak S, Pastewski J, Studzinski D, Brahmamd P, Akay B. Early prospective evaluation of an evidence-based decision tool to assess pediatric blunt abdominal trauma. 4th Annual Michigan Summit on Quality Improvement, Patient Safety, and Wellness, Troy, MI, May 29, 2019.

Lapkus M, DeMare A, Field J, Lovvorn H, **Novotny N.** Impact of closing gastroschisis on outcomes after intracorporeal parking versus resection. Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019.

Lapkus M, DeMare A, Jones K, England A, **Akay B, Brahmamd P.** Pediatric laparoscopic gastrostomy with T-fasteners: A technique to decrease surgical site infection. 4th Annual Michigan Summit on Quality Improvement, Patient Safety, and Wellness, Troy, MI, May 29, 2019; American Academy of Pediatrics 2019 National Conference and Exhibition, New Orleans LA, October 25, 2019.

Orelaru F, Karabon P, **Brahmamd P.** Impact of clostridium difficile infection on pediatric appendicitis. Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019.

Pastewski JM, Luehmann NC, Cirino JA, DeMare AM, Al-Hadidi A, Riggs TW*, et al, [Novotny NM, Akay B]. Implementation of a pediatric trauma cervical spine clearance pathway. Detroit Surgical Association, Detroit, MI, February 25, 2019.

PEDIATRIC SURGERY

Abstracts with Associated Research Presentations continued:

Pastewski J, Kawak S, Brahmamdam P, Akay B. Early prospective evaluation of an evidence-based decision tool to assess pediatric blunt abdominal trauma. Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019.

Reilly D, DeMare A, Akay B, Brahmamdam P. Pediatric laparoscopic gastrostomy with T-fasteners: A technique to decrease surgical site infection. Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019.

Tom A, Brahmamdam P. Effect of clostridium difficile infection on pediatric acute appendicitis. Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019.

Tom A, Pastewski J, Kawak S, Brahmamdam P, Akay B. Early prospective evaluation of an evidence-based decision tool to assess pediatric blunt abdominal trauma. Pediatric Trauma Coalition, Battle Creek, MI, May 22, 2019.

PLASTIC SURGERY

Peer-Reviewed Articles:

Kraft CT, **Harake MS**, Janis JE. Longitudinal assessment of aesthetic plastic surgery training in the United States: The effect of increased ACGME case log minimum requirements. *Aesthet Surg J* 2019 March 14;39(4):NP76-NP82.

THORACIC SURGERY

Peer-Reviewed Articles:

Puri V, Gaissert HA, Wormuth DW, Grogan EL, Burfeind WR, Chang AC, et al, **[Welsh RJ]**. Defining proficiency for the Society Of Thoracic Surgeons participants performing thoracoscopic lobectomy. Ann Thorac Surg 2019 January;107(1):202-208.

Seder CW, Magee MJ, Broderick SR, Brown LM, Blasberg JD, Kozower BD, et al, **[Welsh RJ]**. The Society Of Thoracic Surgeons general thoracic surgery database 2019 update on outcomes and quality. Ann Thorac Surg 2019 May;107(5):1302-1306.

VASCULAR SURGERY

Peer-Reviewed Articles:

Davis FM, Jerzal E, Albright J, Kazmers A, Monsour A, **Bove P**, et al. Variation in the elective management of small abdominal aortic aneurysms and physician practice patterns. *Journal of Vascular Surgery*, 2019 October 1;70(4):1089-98.

Dombrowski D, Long GW, Chan J, **Brown OW**. Screening chest computed tomography is indicated in all patients with abdominal aortic aneurysm. *Annals of Vascular Surgery*, 2019 November 26.

Eden CL, Long GW, Major M, Studzinski D, Brown OW. Does type II endoleak with an enlarging aortic sac predispose to development of a type IA endoleak? *Journal of Vascular Surgery*, June 2019;69(6):e206.

Major M, Long GW, Eden CL, Studzinski D, Devaraj V, Brown OW. Long-term outcomes and interventions of postoperative type IA endoleaks after elective endovascular aneurysm repair. *Journal of Vascular Surgery*, June 2019;69(6):e212-e213.

Abstracts with Associated Research Presentations:

Eden C, Long GW, Major M, Studzinski D, Brown OW. Does type 2 endoleak with enlarging aortic sac predispose to development of type 1a endoleak? Society for Vascular Surgery 2019 Annual Meeting, Washington, DC, June 12-15, 2019; Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019; Midwest Vascular Surgery Society 43rd. Annual Meeting, Chicago IL, September 12-14, 2019. **Winner of D. Emerick Szilagyi Award.**

Major M, Long GW, Gates E, Osei S, Studzinski D, Callahan R, Brown OW, et al, **[Welsh R]**. Predictors of mortality for nonagenarians undergoing abdominal aortic aneurysm repair: Analysis of the NSQIP dataset. Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019; ACS Quality and Safety Conference, New York, NY, July 21-24, 2019.

Major M, Long GW, Eden C, Studzinski D, Brown OW. Long-term outcomes and interventions of postoperative type 1A endoleak following elective EVAR. Michigan Chapter, American College of Surgeons 66th Annual Meeting, Grand Rapids, MI, May 8-10, 2019; Society for Vascular Surgery 2019 Annual Meeting, Washington, DC, June 12-15, 2019; Midwest Vascular Surgery Society 43rd Annual Meeting, Chicago IL, September 12-14, 2019.

UROLOGY

Peer-Reviewed Articles:

Alzubaidi AN, Nepple KG, **Vollstedt A**, Dahmouh L, Ma D, Henry MD, et al. Alpha-dystroglycan staining pattern and mortality in patients undergoing radical prostatectomy with lymph node positive prostate cancer. *Can J Urol*, 2019 December;26(6):10054-10060.

Bonekamp D, Wolf M, Roethke MC, Pahernik S, Hadaschik BA, Hatiboglu G, et al, **[Relle J, Hafron J]**. Twelve-month prostate volume reduction after MRI-guided transurethral ultrasound ablation of the prostate. *Eur Radiol*, 2019 January;29(1):299-308.

Chi KN, Agarwal N, Bjartell A, Chung BH, Pereira de Santana Gomes AJ, Given R, et al, **[Hafron J]**. Apalutamide for metastatic, castration-sensitive prostate cancer. *N Engl J Med*, 2019 July 4;381(1):13-24.

Chuang YC, Tyagi P, Luo HL, Lee WC, Wang HJ, Huang CC, et al, **[Chancellor MB]**. Long-term functional change of cryoinjury-induced detrusor underactivity and effects of extracorporeal shock wave therapy in a rat model. *Int Urol Nephrol*, 2019 April;51(4):617-626.

Crawford ED, Twardowski PW, Concepcion RS, **Hafron JM**, Harris RG, Moul JW, et al. The impact of late luteinizing hormone-releasing hormone agonist dosing on testosterone suppression in prostate cancer patients: An analysis of United States clinical data. *J Urol*, October 3, 2019.

Dauw CA, Ghani KR, Qi J, Kim T, Telang J, **Seifman B**, et al, **[Jafri M]**. Variable use of postoperative imaging following ureteroscopy: Results from a statewide quality improvement collaborative. *Urology*, October 13, 2019.

Diokno AC. A 50-year review of Lapidus' clean intermittent catheterization: A revolutionary, life-saving, quality-of-life improving technique for bladder management. *Urologic Nursing*, 2019 September/October;39(5):229-234.

Doktor J, **Tennyson LE**, ***Nguyen L**, ***Han E**, **Sirls LT**. The clinical rate of antibiotic change following empiric treatment for suspected urinary tract infections. *Int Urol Nephrol*, November 5, 2019.

Eggner S, Karsh LI, Richardson T, Shindel AW, Lu R, Rosenberg S, et al, **[Korman H]**. A 17-gene panel for prediction of adverse prostate cancer pathologic features: Prospective clinical validation and utility. *Urology*, 2019 April;126:76-82.

Gross MS, **Vollstedt AJ**, Cleves MA, Glina S, Honig SC, Perito P, et al. Multicenter investigation on the influence of climate in penile prosthesis infection. *Int J Impot Res*, May 1, 2019.

***Han E**, ***Nguyen LN**, **Gilleran J**, ***Bartley J**, ***Killinger KA**, Boura JA, et al, **[Sirls LT]**. Pelvic floor distress inventory scores improve after prolapse surgery regardless of surgical approach but not after observation alone. *Urology*, 2019 February;124:62-71.

UROLOGY

Peer-Reviewed Articles continued:

Kaul S, Wojno KJ, Stone S, Evans B, Bernhisel R, Meek S, et al. Clinical outcomes in men with prostate cancer who selected active surveillance using a clinical cell-cycle risk score. *Per Med*, 2019 November;16(6):491–499.

Keihani S, Putbrese BE, Rogers DM, Zhang C, Nirula R, Luo-Own X, et al, **[Burks FN]**. The associations between initial radiographic findings and interventions for renal hemorrhage after high-grade renal trauma: Results from the multi-institutional genitourinary trauma study. *J Trauma Acute Care Surg*. 2019 June;86(6):974-982.

Keihani S, Rogers DM, Putbrese BE, Moses RA, Zhang C, Presson AP, et al, **[Burks FN]**. A nomogram predicting the need for bleeding interventions after high-grade renal trauma: Results from the American association for the surgery of trauma multi-institutional genito-urinary trauma study (MiGUTS). 2019 May;86(5):774-782.

***Killinger KA**, Henrichsen JL, ***Han E**, Dai YL, ***Nguyen L**, **Gilleran J**, et al, **[Peters KM, Siris 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*, October 17, 2019.

Kraemer S, Watson B, Peters KM. The evaluation and management of interstitial cystitis/bladder pain syndrome. *EMJ Urol*, April 2019;7(1):75-82.

Nickel JC, Moldwin R, Hanno P, Dmochowski R, **Peters KM**, Payne C, et al. Targeting the SHIP1 pathway fails to show treatment benefit in interstitial cystitis/bladder pain syndrome: Lessons learned from evaluating potentially effective therapies in this enigmatic syndrome. *J Urol*, 2019 August;202(2):301-308.

Sathianathan N, Albersheim-Carter J, Labine L, **Watson B**, Konety B, Weight C. Potential patient harms from misinterpretation of publically reported surgical outcomes. *BJU Int*, 2019 January;123(1):180-186.

Shore N, **Hafron JM**, Langford T, Stein M, DeHart J, Brawer M, et al. Urinary molecular biomarker test impacts prostate biopsy decision making in clinical practice. *Urology Practice*, 2019 July;6(4):256-261.

Tapper A, Leale D, Megahan G, Nacker K, ***Killinger KA**, **Hafron JM**. Robotic instrument failure - a critical analysis of cause and quality improvement strategies. *Urology*, 2019 September;131:125-129.

Valença MP, da Silva Filho JC, Santos ICRV, Almeida Calado A, Chancellor DD, et al, **[Chancellor MB]**. Translation, cross-cultural adaptation and validation of the underactive bladder questionnaire to Portuguese. *Int Urol Nephrol*. 2019 August;51(8):1329-1334.

Vollstedt A, Ingimarsson J, Dagrosa L, Pais V. Increasing stone complexity does not affect fluoroscopy time in percutaneous nephrolithotomy. *Ther Adv Urol*, April 4, 2019.

UROLOGY

Peer-Reviewed Articles continued:

Vollstedt A, Meeks W, Triaca V. Robotic sacrocolpopexy for the management of pelvic organ prolapse: Quality of life outcomes. *Ther Adv Urol*, August 8, 2019.

Wang HJ, Tyagi P, Chen YM, **Chancellor MB**, Chuang YC. Low energy shock wave therapy inhibits inflammatory molecules and suppresses prostatic pain and hypersensitivity in a capsaicin induced prostatitis model in rats. *Int J Mol Sci*, 2019 September 26;20(19).

Wojno KJ, Baunoch D, Luke N, Opel M, **Korman H**, Kelly C, et al, [**Jafri SMA**, **Wenzler D**, **Mansour S**, **Burks F**, **Sirls LT**]. Multiplex PCR based urinary tract Infection (UTI) analysis compared to traditional urine culture in identifying significant pathogens in symptomatic patients. *Urology*, November 9, 2019.

Zhang KJ, Wilson GD, Kara S, Majeske A, Zhang PL, **Hafron JM**. Diagnostic role of kidney injury molecule-1 in renal cell carcinoma. *Int Urol Nephrol*, 2019 November;51(11):1893-1902.

Book Chapter or Full Book Publications:

Lamb LE, **Bartolone SN**, **Chancellor MB**. Detection of zika virus using reverse transcription-loop mediated isothermal amplification (RT-LAMP). Invited chapter in *Methods in Molecular Biology. Zika Virus: Methods and Protocols*. Springer: New York City, 2019.

Abstracts with Associated Research Presentations:

Arianpour K, **Odom B**, **Wojno K**, **Shetty S**. Clinical utility of ConfirmMDx epigenetic testing in diagnosis of prostate cancer. North Central Section of the American Urological Association (AUA) Annual Meeting, Chicago, IL, September 11-14, 2019.

Atkinson S, Concepcion RS, Boldt-Houle DM, **Hafron JM**. Late dosing of luteinizing hormone-releasing hormone (LHRH) agonists and the impact on testosterone suppression in the real-world management of prostate cancer. 39th Congress of the Société Internationale d'Urologie, Athens, Greece, October 17-20, 2019.

***Bartley J**, ***Nguyen L**, **Hasenau D**, **Gilleran J**, **Sirls LT**, ***Han E**, et al, [**Tennyson L**, **Peters KM**]. Onobotulinumtoxin A versus Kenalog for intravaginal trigger point injections in the treatment of chronic pelvic pain. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

Bartolone SN, **Ward EP**, **Zwaans BMM**, Wang Z, **Chancellor MB**, **Lamb LE**. Modeling the aging bladder using klotho deficient mice. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

Bartolone SN, **Ward EP**, **Chancellor MB**, **Peters KM**, **Lamb LE**. Proteomic analysis of interstitial cystitis bladder samples of Hunner's lesions and adjacent tissue reveals alterations in ubiquitination pathways. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

UROLOGY

Abstracts with Associated Research Presentations continued:

Diokno AC, Gilleran JP, Siris LT, Hasenau DL, Bowlus JE, Shea EM, et al, [Chancellor MB]. Intradetrusor injection of adult muscle-derived Cells (AMDC) for the treatment of underactive bladder: Interim report on safety and efficacy (NCT02463448). American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019. **Featured in Meeting Highlights and UroToday.com.**

Doktor J, ***Nguyen L, Tennyson L, *Han E, Siris LT.** The clinical rate of antibiotic change following empiric treatment for suspected urinary tract infections. Society of Urodynamics Female Urogenital Reconstruction, National Meeting (SUFU), Miami, FL, February 26-March 2, 2019. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

Elterman D, Hatiboglu G, Hetou K, **Relle J**, Staruch R, Burtnyk M, et al. Relief of lower urinary tract symptoms after MRI-guided transurethral ultrasound ablation (TULSA): Subgroup analyses in patients with symptoms of benign prostatic hyperplasia. Society of Urodynamics Female Urogenital Reconstruction, National Meeting (SUFU), Miami, FL, February 26-March 2, 2019.

Flanders S, **Hafron JM**, I Bazell C, Ferro C, Fitch K, McKay R. Patterns of drug utilization for metastatic castration resistant prostate cancer (mCRPC) Medicare beneficiaries receiving first-line treatment. 20th Annual Meeting of the Society of Urologic Oncology, Washington, DC, December 4-6, 2019.

Flanders SC, Lowentritt BH, **Hafron JM**, Brown BA, Morris DS. Indirect comparison of survival and cost per number needed to treat benefit analysis of Abiraterone, Enzalutamide and Sipuleucel T in the treatment of metastatic castration-resistant prostate cancer. American Urological Association (AUA) Annual Meeting, Chicago, IL, May3-6,2019.

Ginsburg K, Mcerloy A, **Tapper A, Burks F**, Cher M, Rambhatla A. Incidence, risk factors, and perioperative outcomes associated with clostridium difficile infection in urologic surgery: Analysis of the American College of Surgeons national surgical quality improvement project database. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

Grobbel M, **Zwaans BMM, Ward EP, Lamb LE**, Roccabianca S. Effect of radiation cystitis on urinary bladder mechanics. Society for Basic Urological Research (SBUR), New Orleans, LA, November 7-10, 2019.

***Han E, Gilleran J.** Robotic revision of an artificial urinary sphincter in a female. Society of Urodynamics Female Urogenital Reconstruction, National Meeting (SUFU), Miami, FL, February 26-March 2, 2019.

***Han E, Tennyson L, Gilleran J, *Bartley J, Peters K.** Small fiber polyneuropathy in hunner lesion and non-hunner lesion bladder pain syndrome. Society of Urodynamics Female Urogenital Reconstruction, National Meeting (SUFU), Miami, FL, February 26-March 2, 2019.

Janicki JJ, Semba RD, **Chancellor MB, Lamb LE.** Association of urinary leakage with decreased testosterone in older women: Results from the health, aging, and body composition study (Health ABC). American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

UROLOGY

Abstracts with Associated Research Presentations continued:

Keihani S, Putbrese B, Rogers D, Stoddard G, Mukherjee K, Majercik S, et al, **[Burks, F]**. Reliability of the American Association for the Surgery of Trauma (AAST) renal injury grading for high-grade renal injuries. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

Keihani S, Rogers D, Putbrese B, Moses R, Zhang C, Mukherjee K, et al, **[Burks F]**. Optimal cut-off points or laceration size and peri-renal hematoma rim distance to predict bleeding interventions after high-grade renal trauma. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

Lamb LE, Song K, Semba RD, Podolsky RH, **Chancellor MB**. Association of urinary leakage frequency with biomarkers of systemic inflammation: Results from the health, aging, and body composition study. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019. **Featured in Meeting Highlights and UroToday.Com**

Lucas J, Myers J, Keihani S, Moses R, Xu Y, Morris B, et al, **[Burks F]**. Treatment complications associated with extraperitoneal bladder injuries: Results from the multi-institutional AAST study of bladder trauma. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

Meier K, Blatt N, **Liss Z**. A chylous conundrum: The curious case of cryptogenic cloudy urine. North Central Section of the American Urological Association (AUA) Annual Meeting, Chicago, IL, September 11-14, 2019.

Meier K, ***Hiller S**, Dauw C, Hollingsworth J, Ghani K, Kim T, et al, **[Jafri SM]**. Understanding ureteral access sheath use within a statewide collaborative and its effects on surgical outcomes and complications. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019 and Michigan Urological Society (MUS) Meeting, Livonia, MI, May 17, 2019; North Central Section of American Urological Association (AUA) Annual Meeting, Chicago, IL, September 11-14, 2019.

Meier K, **Kraemer S**, **Fischer M**, **Liss Z**. Minimally invasive endoscopic management of symptomatic calcified deflux. North Central Section of the American Urological Association (AUA) Annual Meeting, Chicago, IL, September 11-14, 2019.

Meier K, Vecellio P, ***Killinger KA**, ***Boura J**, **Peters KM**. Pudendal neuromodulation is feasible and effective after pudendal nerve entrapment surgery. North Central Section of the American Urological Association (AUA) Annual Meeting, Chicago, IL, September 11-14, 2019.

Morgan T, Okoth L, Feng F, Johnson A, Lane B, Linsell S, et al, **[Wojno K, Burks F, Sarle R]**. Prospective randomized trial of gene expression classifier utility in men at high risk of recurrence following radical prostatectomy (G-MINOR). Annual European Association of Urology (EAU) Congress, Barcelona, Spain, March 15-19, 2019.

Odom B. The negative predicative value of Confirm MDx for negative prostate biopsy. Michigan Urological Society (MUS) Meeting, Livonia, MI, May 17, 2019.

UROLOGY

Abstracts with Associated Research Presentations continued:

Odom B, Burks F. Do radiographic markers improve diagnostic utility of retrograde urethrograms for urethral stricture disease? North Central Section of the American Urological Association (AUA) Annual Meeting, Chicago, IL, September 11-14, 2019.

Peters KM. A novel approach to managing post retropubic vaginal sling pain. International Neuromodulation Society (INS), World Congress, Sydney, Australia, May 25-30, 2019.

Peters KM, Siris LT. Early evaluation of an implanted chronic tibial nerve stimulation device versus percutaneous nerve stimulation for the treatment of urinary urge incontinence. International Neuromodulation Society (INS), World Congress, Sydney, Australia, May 25-30, 2019.

Peters KM, Siris LT. Retrograde percutaneous technique of lead placement for chronic tibial nerve stimulation: An office based procedure. International Neuromodulation Society (INS), World Congress, Sydney, Australia, May 25-30, 2019. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

Ramanathan S, Balaraman S, Levin M, Johnson B, Fensterer J, **Wojno K**, et al, [**Korman HJ**]. Clinical experience with germline testing in a cohort of prostate cancer patients treated at an academic and community center. North Central Section of the American Urological Association (AUA) Annual Meeting, Chicago, IL, September 11-14, 2019.

Shah P, Qi J, Ferrante S, Miller D, Solomon MH, **Hafron J**, et al. Over use of opioids after prostatectomy: Statewide experience from the Michigan Urologic Surgery Improvement Collaborative (MUSIC). American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

Siris LT, Burks F, Korman H, Jafri M, Luke N, Kelly C et al, [Wojno K]. PCR based urinary tract infection (UTI) analysis compared to traditional urine culture in identifying significant uropathogens in symptomatic patients. Society of Urodynamics Female Urogenital Reconstruction, National Meeting (SUFU), Miami, FL, February 26-March 2, 2019. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019

Siris LT, Peters KM. Retrograde percutaneous technique of lead placement for chronic tibial nerve stimulation, an office based procedure. Society of Urodynamics Female Urogenital Reconstruction, National Meeting (SUFU), Miami, FL, February 26-March 2, 2019; International Continence Society (ICS) 49th Annual Meeting, Gothenburg, Sweden, September 3-6, 2019.

Siris E, Pfannes R, **Siris LT.** Intradetrusor onabotulinumtoxinA injection for refractory bladder spasms before vesicovaginal fistula repair. Society of Urodynamics Female Urogenital Reconstruction, National Meeting (SUFU), Miami, FL, February 26-March 2, 2019.

Siris LT, Schonhoff A, Waldvogel A, Hasenau D, Peters KM. Early evaluation of an implanted chronic tibial nerve stimulation device versus percutaneous nerve stimulation for the treatment of urinary urge incontinence. Society of Urodynamics Female Urogenital Reconstruction, National Meeting (SUFU), Miami, FL, February 26-March 2, 2019 and International Continence Society (ICS) 49th Annual Meeting, Gothenburg, Sweden, September 3-6, 2019.

UROLOGY

Abstracts with Associated Research Presentations continued:

Tapper A, Wilson A, Lucas S, Dunn R, Ghani K, Kim T, et al, **[Burks F]**. Patient selection and outcomes between lower and higher volume surgeons in performance of radical prostatectomy: Analysis of the Michigan Urological Surgery Improvement Collaborative (MUSIC). American Urological Association 2019 Annual Meeting, Chicago, IL, May 3-6, 2019 and North Central Section of the American Urological Association (AUA) Annual Meeting, Chicago, IL, September 11-14, 2019.

Tennyson L, *Han E, Gilleran J, Peters KM, Sirls LT. A quantitative approach to the pelvic floor exam: Is it reproducible? American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

Tennyson L, *Han E, Peters KM, Sirls LT. Is less more? A cadaver model to assess diffusion patterns of intradetrusor injections. Society of Urodynamics Female Urogenital Reconstruction, National Meeting (SUFU), Miami, FL, February 26-March 2, 2019.

Tennyson L, *Nguyen L, Sirls E, ***Han E,** Vecellio P, ***Killinger KM,** et al, **[*Bartley J, Gilleran J, Peters KM, Sirls LT]**. Urinary tract infections in geriatric ambulatory patients with indwelling catheters. Society of Urodynamics Female Urogenital Reconstruction, National Meeting (SUFU), Miami, FL, February 26-March 2, 2019.

Trebelhorn J, **Chancellor MB,** Dhar N. Expectation of pain with ambulatory cystoscopy in Arabic women population and clinical pathway utilizing Arabic written medical information to improve care. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

Ward EP, Bartolone SN, Chancellor MB, Peters KM, Lamb LE. Mass spectrometry analysis of interstitial cystitis bladder biopsies reveals significant differences in inflammation and loss of cellular structure pathways in interstitial cystitis with Hunner's lesions samples. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

Watson B, Korman A, **Wojno K, Korman H, Wenzler D, Jafri SMA.** Multiplex polymerase chain reaction based urinary tract infection analysis compared to traditional urine culture in identifying significant uropathogens in symptomatic patients. Michigan Urological Society (MUS) Meeting, Livonia, MI, May 17, 2019; North Central Section of the American Urological Association (AUA) Annual Meeting, Chicago, IL, September 11-14, 2019.

Watson B, Olive E, **Wojno K, Korman H, Mansour S, Jafri SMA.** Multiplex polymerase chain reaction testing compared to traditional urine culture for detection of uropathogens in female and male patients with symptomatic urinary tract infections. North Central Section of the American Urological Association (AUA) Annual Meeting, Chicago, IL, September 11-14, 2019.

Watson B, Saon M, **Wojno K, Korman H,** O'Connor J, **Jafri SMA.** Differences in pathogenic organisms detected by polymerase chain reaction based molecular testing and traditional urine culture for symptomatic urinary tract infections. North Central Section of the American Urological Association (AUA) Annual Meeting, Chicago, IL, September 11-14, 2019. **Best Poster Award - Benign Bladder Pathology.**

UROLOGY

Abstracts with Associated Research Presentations continued:

Watson B, Shetty S. Prostate-"eye"-tis: Disseminated pseudomonas aeruginosa infection from prostatic abscess presenting with vision loss. North Central Section of the American Urological Association (AUA) Annual Meeting, Chicago, IL, September 11-14, 2019. **Best Presentation Award in the Bizarre and Interesting Case category.**

Wilson A, Cher M, Dunn R, Ghani K, Kim T, Miller D, et al, [Tapper A, Rosenberg B, Burks F]. An assessment of factors associated with lack of early social continence following radical prostatectomy: Analysis of the Michigan Urological Surgery Improvement Collaborative (MUSIC). Michigan Urological Society (MUS) Meeting, Livonia, MI, May 17, 2019; North Central Section of the American Urological Association (AUA) Annual Meeting, Chicago, IL, September 11-14, 2019.

Zwaans BMM, Nicholai HE, Stangel-Wójcikiewicz K, Chancellor MB, Lamb LE. Development of radiation cystitis biomarker: Elevated fibrotic markers in urine of radiation cystitis patients. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019. **Best of Posters Award.**

Zwaans BMM, Wegner K, Bartolone SN, Chancellor MB, Vezina C, Lamb LE. Radiation cystitis modeling: A comparative study of bladder radiation-induced fibrosis in different mouse strains. Experimental Biology Annual Meeting, Orlando, FL, April 7, 2019; Society for Basic Urological Research (SBUR), New Orleans, LA, November 7-10, 2019.

Invited Research Presentations:

Diokno AC, Lajiness MJ. OAB treatment algorithm-best practice recommendations. Society of Urologic Nurses and Associates (SUNA) uroLogic Conference, Orlando, FL, September 20-23, 2019.

Peters KM. Complex cases-pelvic floor spasm in men and women. American Urological Association (AUA) Annual Meeting, Chicago, IL, May 3-6, 2019.

Peters KM. State-of-the-art lecture: The future of neuromodulation in urology: Exciting new indications, nerve targets and devices. South Central Section of the American Urological Association (AUA) Annual Meeting, Colorado Springs, CO, September 25-28, 2019.

Non Peer-Reviewed Research Publications:

Diokno AC. Legends in Urology. Can J Urol, 2019 August;26(4):9803-9805.

**BEAUMONT HOSPITAL
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DERMATOLOGY

Peer-Reviewed Articles:

Kohli I, Braunberger TL, **Nahhas AF**, Mirza FN, Mokhtari M, Lyons AB, et al. Long wavelength ultraviolet A1 and visible light photoprotection: A multimodality assessment of dose and response. *Photochem Photobiol*, 2019 August 29.

Kohli I, **Nahhas AF**, Braunberger TL, Chaowattanapanit S, Mohammad TF, Nicholson CL, et al. Spectral characteristics of visible light-induced pigmentation and visible light protection factor. *Photodermatol Photoimmunol Photomed*, 2019 November;35(6):393-399.

Kohli I, Zubair R, Lyons AB, **Nahhas AF**, Braunberger TL, Mokhtari M, et al. Impact of long-wavelength ultraviolet A1 and visible light on light-skinned individuals. *Photochem Photobiol*, 2019 November;95(6):1285-1287.

Nahhas AF, Abdel-Malek ZA, Kohli I, Braunberger TL, Lim HW, Hamzavi IH. The potential role of antioxidants in mitigating skin hyperpigmentation resulting from ultraviolet and visible light-induced oxidative stress. *Photodermatol Photoimmunol Photomed*, 2019 November;35(6):420-428.

Nahhas AF, Braunberger TL, Hamzavi IH. An update on drug-induced pigmentation. *Am J Clin Dermatol*, 2019 February;20(1):75-96.

Nahhas AF, Braunberger TL, Hamzavi IH. Update on the management of vitiligo. *Skin Therapy Lett*, 2019 May;24(3):1-6.

Nahhas AF, Nartker NT, Braunberger TL, Jacobsen G, Hamzavi IH. The impact of positive antinuclear antibody on narrowband ultraviolet B phototherapy in patients with vitiligo: A retrospective chart review. *Photodermatol Photoimmunol Photomed*, 2019 March;35(2):106-109.

Ward RE, Sklar LR, **Eisen DB**. Surgical and noninvasive modalities for scar revision. *Dermatol Clin*, 2019;37(3):375-386.

EMERGENCY MEDICINE

Peer-Reviewed Articles:

Cooley CN, Beranek TJ, Warpinski MA, Alexander R, Esquivel AO. A comparison of head injuries in male and female lacrosse participants seen in US emergency departments from 2005 to 2016. *Am J Emerg Med*, 2019 February;37(2):199-203.

Taylor GM, **Barney MW, McDowell EL.** Chest pain while gardening: A stanford type A dissection involving the aortic root extending into the iliac arteries-an uncommon and potentially catastrophic disease process. *Int J Emerg Med*, 2019 August 30;12(1):25.

Taylor GM, **Erlich AH, Wallace LC, Williams V, Ali RM,** Zygowiec JP. A tubo-ovarian abscess mimicking an appendiceal abscess: A rare presentation of *Streptococcus agalactiae*. *Oxf Med Case Reports*, 2019 August 1;2019(8).

Taylor GM, **Erlich AH.** Perianal abscess in a 2-year-old presenting with a febrile seizure and swelling of the perineum. *Oxf Med Case Reports*, 2019 January 24;2019(1).

Taylor GM, **Saffer ER, McDowell EL, Warpinski MA.** A 2-year-old with a hepatic abscess secondary to an ascending retrocecal appendicitis: Case report and review of the literature. *Int J Emerg Med*, 2019 December 19;12(1):41-9.

GENERAL SURGERY

Peer-Reviewed Articles:

Kazdan J, Sharp V, Pui J. Case report: A rare presentation of high risk epithelioid hemangioendothelioma on leg treated with surgical excision. *Int J Surg Case Rep*, 2019 May 10;59:66-69.

NURSING

Peer-Reviewed Articles:

Fletcher-Gutowski S, **Cecil J.** Is 2-person urinary catheter insertion effective in reducing CAUTI?
Am J Infect Control, 2019 December;47(12):1508-1509.

ORTHOPAEDICS

Peer-Reviewed Articles:

Mills S, Burroughs KE. Legg Calve Perthes disease (Calves Disease). Treasure Island, FL, StatPearls Publishing LLC, 2019 June 4.

Seidman AJ, Limaiem F. Synovial fluid analysis. Treasure Island, FL, StatPearls Publishing LLC, 2019 January 22.

Seidman AJ, Siccardi MA. Postpartum pubic symphysis diastasis. Treasure Island, FL, StatPearls Publishing LLC, 2019 January 12.

OTOLARYNGOLOGY

Peer-Reviewed Articles:

Sayal NR, Boyd S, Zach White G, Farrugia M. Incidental mastoid effusion diagnosed on imaging: Are we doing right by our patients? *Laryngoscope*, 2019 April;129(4):852-857.

PLASTIC SURGERY

Peer-Reviewed Articles:

Sharma A, Rozzelle A, Jahnke MN, Desai J, Shwayder TA, Kisseih E, et al, **[Bryant JR]**. ABCA12 homozygous mutation in harlequin ichthyosis: Survival without systemic retinoids. *Pediatr Dermatol*, 2019 May;36(3):339-341.

PULMONARY AND CRITICAL CARE

Peer-Reviewed Articles:

Criner GJ, Delage A, Voelker K, Hogarth DK, Majid A, Zgoda M, et al, **[Kaplan PV]**. Improving lung function in severe heterogenous emphysema with the spiration valve system (EMPROVE). A multicenter, open-label randomized controlled clinical trial. Am J Respir Crit Care Med, 2019 December 1;200(11):1354-1362.

BEAUMONT HOSPITAL
Dearborn, Taylor, Trenton, Wayne

ANESTHESIOLOGY

Peer-Reviewed Articles:

Larach MG, Klumpner TT, Brandom BW, Vaughn MT, Belani KG, Herlich A, et al, **[Wilczak J]**. Succinylcholine use and dantrolene availability for malignant hyperthermia treatment: Database analyses and systematic review. *Anesthesiology*, 2019;130(1),41-54.

CARDIOVASCULAR DISEASE

Peer-Reviewed Articles:

Ali-Ahmed F, Federspiel JJ, Liang L, Xu H, Sevilis T, Hernandez A, et al. Intravenous tissue plasminogen activator in stroke mimics. *Circ Cardiovasc Qual Outcomes*, 2019;12(8).

Fudim M, **Ali-Ahmed F**, Patel MR, Sobotka PA. Sham trials: Benefits and risks for cardiovascular research and patients. *Lancet*, 2019;393(10186):2104-2106.

Kadri A, 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. *European Heart Journal: Quality of Care & Clinical Outcomes*, September 17, 2019.

Shah Z, Alraies MC, Harp A, Khalil S, Kaki A, **Elder M**. A right atrial mass. *Cleve Clin J Med*, 2019;86(7),445-447.

Assar S, Ali H, Chattahi J. Simultaneous use of mechanical circulatory support and catheter-directed thrombolysis for massive pulmonary embolism. 68th Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC), New Orleans, LA, March 16-18, 2019; *JACC* 73 (9 Suppl 1):2836-2836.

Bernardo M, Beasley M, Marciano P, Dabbous S. An unlikely suspect: Coronary-subclavian steal syndrome. 68th Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC), New Orleans, LA, March 16-18, 2019; *JACC* 73(9 Suppl 1):2539-2539.

Daneshavar F, Patel A, Mahmood R. A case of Amiodarone-induced hypothyroidism complicated by Torsades de Pointes. 68th Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC), New Orleans, LA, March 16-18, 2019, *JACC* 73 (9 Suppl 1):2141-2141.

Lynch S, Beasley M, Hassan S, Dabbous S. Brugada pattern and cardiac arrest: A rare complication following transcatheter aortic valve replacement. 68th Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC), New Orleans, LA, March 16-18, 2019; *JACC* 73(9 Suppl 1):2647-2647.

Shuaib M, Beasley M, Marinescu S. You better watch out! Acute management of transient shock secondary to the Bezold-Jarisch reflex following reperfusion of an inferior wall stemi. 68th Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC), New Orleans, LA, March 16-18, 2019; *JACC* 73(9 Suppl 1):2909.

FAMILY MEDICINE

Peer-Reviewed Articles:

Meza JP. Confirmation bias by consumers of clinical research demonstrates the need for implementation science. *Clinical Research in Practice: The Journal of Team Hippocrates*, February 2019;5(1).

GERIATRICS

Peer-Reviewed Articles:

Sengstock D, Zimmerman J. Faculty and resident knowledge of research and statistics in a community hospital. Annual Meeting of the Accreditation Council for Graduate Medical Education, Orlando, FL, March 9, 2019.

Saeed N, Glass L, Habbai H, Mahmood A, **Sengstock D**, Tincopa M. Primary care and specialty physician perspectives on Non-alcoholic Fatty Liver Disease (NAFLD) screening, diagnosis, and referral. American College of Gastroenterology (ACG) Annual Meeting, October 26, 2019.

John R, Swaminathan L, Hunter A, **Sengstock D**. The resident-lead system-focused inter-professional morbidity and mortality series. American Association of Medical Colleges (AAMC) Annual Meeting, November 4, 2019.

INTERNAL MEDICINE

Peer-Reviewed Articles:

Al-Banaa K, Alhillan A, Hawa F, **Mahmood R**, **Zaki A**, **El Abdallah M**, [**Zimmerman J**, **Musa, F**]. Emicizumab use in treatment of acquired Hemophilia A: A case report. Am J Case Rep, 2019; 20,1046-1048.

Benhuri B, **Eljack A**, Kahaleh B, Chakravarti R. Mechanism and biomarkers in aortitis: A review. J Mol Med, 2019 October 30.

Chopra V, Kaatz S, **Swaminathan L**, Boldenow T, Snyder A, Burris R, et al. Variation in use and outcomes related to midline catheters: Results from a multicenter pilot study. BMJ Qual Saf, 2019, September;28(9):714-720.

ELJack A, **El Abdallah M**, **Al-Banaa K**, **Chaudhry K**, **Musa F**. A new challenging strategy in the prevention and management of tumor lysis syndrome in patients with chemo-sensitive hematological malignancies. Case Rep Oncol Med, 2019;3740547.

Gupta K, **Kakar TS**, Gupta A, Singh A, Gharpure N, Aryal S. et al. Role of left ventricle deformation analysis in stress echocardiography for significant coronary artery disease detection: A diagnostic study meta-analysis. Echocardiography, 2019;36(6),1084-1094.

Likhitsup A, Hassan A, Mellinger J, Askari F, Winder GS, **Saeed N**, et al. Impact of a prohibitive versus restrictive tobacco policy on liver transplant candidate outcomes. Liver Transpl, 2019; 25(8),1165-1176.

***Malik A**, Kardashian A, Zakharia K, Bowlus CL, Tabibian JH. Preventative care in cholestatic liver disease: Pearls for the specialist and subspecialist. Liver Research, 2019.

Mohammed N, Hung YC, Xu Z, Starke RM, Kano H, Lee J, et al, [**Gill I**]. A propensity score-matched cohort analysis of outcomes after Stereotactic Radiosurgery in older versus younger patients with Dural Arteriovenous Fistula: An international multicenter study. World Neurosurg, 17 Feb 2019,125:e11114-e11124.

Petty LA, Vaughn VM, Flanders S, Malani AN, Conlon A, Kaye KS, et al, [**Thyagarajan R**]. Risk factors and outcomes associated with treatment of asymptomatic bacteriuria in hospitalized patients. JAMA Intern Med, 2019.

Sukari A, Nagasaka M, Diab M, Al Sibai K, Atassi B, **Elayoubi JA**, et al. Cetuximab and methotrexate in recurrent or metastatic head and neck squamous cell carcinoma-A single institution analysis of 54 patients. Clin Otolaryngol, 2019,July;44(4):639-643.

Vaughn VM, Flanders SA, Snyder A, Conlon A, Rogers MAM, Malani AN, et al, [**Thyagarajan R**, **Hsaiky L**]. Excess antibiotic treatment duration and adverse events in patients hospitalized with pneumonia: A multihospital cohort study. Ann Intern Med, 2019;171(3), 153-163.

Yeddi A, Adam O, Khalid M, Farah Y, Yeddi O, **Sheeref H**, et al. 5-Fuorouracil-associated Cardiogenic Shock. Am J Ther. 2019 December 31.

INTERNAL MEDICINE

Peer-Reviewed Articles continued:

Youssef I, **Saeed N, El Abdallah M, Huevelhorst K, *Zakharia K.** Metronidazole-induced pancreatitis: Is there underrecognition? A case report and systematic review of the literature. *Gastrointestinal Medicine*, July 2019.

***Zakharia K,** Miyabe K, Wang Y, Wu D, Moser, CD, Borad MJ, et al. preclinical in vitro and in vivo evidence of an antitumor effect of CX-4945, a Casein Kinase II Inhibitor, Cholangiocarcinoma. *Translational Oncology*, 2019;12(1),143-153.

OBSTETRICS and GYNECOLOGY

Invited Research Presentations:

Barabash K, Cruff J, Song K, Podolsky R, Khandwala S. Retrospective analysis of organ prolapse quantification (POPQ) values from preoperative intraoperative assessment. SCS OB/GYN Research Day, Lansing, MI, December 19, 2019.

Cruff J, Khandwala S. Two cases of obstructive uropathy in patients with advanced pelvic organ prolapse. *Journal of Gynecologic Surgery*, 2019;35(1):60–63.

Khandwala S. Prospective analysis of the dynamic intraoperative standing sling technique a novel method of performing the single-incision sling procedure. *Journal of Gynecologic Surgery*, March 27, 2019;Vol 35,2.

Khandwala S. Transvaginal mesh surgery for pelvic organ prolapse: One-year outcome analysis. *Journal of Gynecologic Surgery*, 2019;35(1):12-18.

Kobashi K, Nitti V, Margolis E, Sand P, Siegel S, **Khandwala S**, et al. A prospective study to evaluate efficacy using the nuro percutaneous tibial neuromodulation system in drug-naive patients with overactive bladder syndrome. *Urology*, 2019 September;131:77-82.

Mariona F, Burnett M, Zoma M, Blake J, Khouri H. Early unexpected diagnosis of fetal life-limiting malformation: Antenatal palliative care and parental decision. *Journal of Maternal-Fetal & Neonatal Medicine*, 2019;32(6):1036–1043.

Mariona F. The NTSV challenge; they are not all created equal. 68th Annual Clinical and Scientific Meeting of the American College of Obstetricians and Gynecologists, Nashville, TN, May 3-6, 2019; *Obstetrics & Gynecology*, 133(Suppl 1):218S.

Rakowski J, Holloway R, Ahmad S, Jeppson C, James J, Ghurani G, et al. A prospective randomized trial of intravenous Ketorolac vs. Acetaminophen administered with opioid patient-controlled analgesia in gynecologic surgery. *Gynecol Oncol*, 2019;155(3):468-472.

OPHTHALMOLOGY

Peer-Reviewed Articles:

Emami-Naeini P, Deaner J, Ali F, **Gogte P**, Kaplan R, Chen KC, et al, [**Wolfe JC**]. Pneumatic Retinopexy experience and outcomes of Vitreoretinal fellows in the United States: A multicenter study. *Ophthalmol Retina*, 2019;3(2):140-145.

Lee Kim E, Weiner AJ, Ung C, Roh M, Wang J, **Lee IJ**, et al, [*Stem M, Williams GA, Garretson BR, Hassan TS, Faia LJ, Capone A Jr, Dresner KA, Wolfe JD]. Characterization of epiretinal proliferation in full-thickness macular holes and effects on surgical outcomes. *Ophthalmol Retina*, 2019 August;3(8):694-702.

Lee IJ, Koh JY. Impact of clinicopathologic factors on survival in patients with sebaceous carcinoma of the eyelid - a population-based analysis. *Orbit*, 2019 August;38(4):261-268.

Rooney DM, Shadid HR, Siegel LI, Watnick RL, Lesser GR, Obertynski T, et al, [**Siegel MJ, Citron ME, Hasbrook M**]. Postoperative complications of Ab interno gelatin microstent. *J Glaucoma*, 2019;28(5):e77-e81.

*Stem MS, *Rao P, **Lee IJ**, Woodward MA, Faia, LJ, Wolfe JD, et al, [Capone A Jr, Covert D, Dass AB, Dresner KA, Garretson BR, Hassan TS, Margherio A, Oh KT, Raephaelian PV, Randhawa S, Sneed S, Trese MT, Yedavally S, Williams GA, Ruby AJ]. Predictors of endophthalmitis after intravitreal injection: A multivariable analysis based on injection protocol and Povidone Iodine strength. *Ophthalmol Retina*, 2019;3(1):3-7.

ORTHOPAEDIC SURGERY

Peer-Reviewed Articles:

Chatha K, Al-Mansoori A, Guo E, **Whaley JD**, Sabesan VJ. Impact of the 7-day disabled list rule change on economics and performance after reported concussion injuries in major league Baseball. *Orthop J Sports Med*, 2019;7(2).

Gemayel A, Yousif MJ, Padgett W, **Finch J**. Distal femoral replacement following an intraoperative periprosthetic fracture in a patient with prior bone mulch ACL reconstruction. *Case Reports in Orthopedics*, 2019; Article 6213807,p5.

Gobbi RG, **Hinckel BB**, Teixeira PRL, Giglio PN, Lucarini BR, Pecora JR, et al. The vastus medialis insertion is more proximal and medial in patients with patellar instability: A magnetic resonance imaging case-control study. *Orthop J Sports Med*, 2019 December 4;7(12).

Hinckel BB, Lipinski L, Arendt EA. Concepts of the distal medial patellar restraints: Medial patellotibial ligament and medial patellomeniscal ligament. *Sports Med Arthrosc Rev*, 2019 December;27(4):143-149.

Hinckel BB, Yanke AB, Lattermann C. When to add lateral soft tissue balancing? *Sports Med Arthrosc Rev*, 2019 December;27(4).

Mariona F. The NTSV challenge; they are not all created equal. *Obstetrics & Gynecology*, 133(Suppl 1):218S.

Nelson JT, Gauger MR, **Whaley JD, Zinberg EM**. Patient-reported symptom-mapping in carpal tunnel syndrome. *Muscle & Nerve*, 2019;59(3):321-325.

Osborne, JD, Luczak SB, **Acker WB**, Bicos J. Patellofemoral joint contact pressures: Current concepts and use in patellar instability studies. *Orthopedics*, 2019;42(2).

Petersen-Fitts G, Gambone A, Sherwood A, Whaley J, Katz DL, Lima DJL, et al. Comparison of microbial count on various surfaces in operating rooms at different times of the day. *J Surg Orthop Adv*, 2019;27(4),281-285.

Sabesan VJ, Lima, DJL, **Whaley JD**, Pathak V, Zhang L. Biomechanical comparison of 2 augmented glenoid designs: An integrated kinematic finite element analysis. *J Shoulder Elbow Surg*, 2019;28(6):1166-1174.

Sabesan VJ, Lima DJ L, **Whaley JD**, Pathak V, Zhang L. The effect of glenohumeral radial mismatch on different augmented total shoulder arthroplasty glenoid designs: A finite element analysis. *J Shoulder Elbow Surg*, 2019; Jun;28(6):1146-1153.

Sabesan VJ, **Shahriar R**, Chatha K, Malone DL, **Sherwood A**, et al, [**Whaley JD**]. Factors affecting the cost and profitability of Arthroscopic Rotator Cuff Repair. *Arthroscopy: The Journal of Arthroscopy & Related Surgery*, 2019;35(1):38–42.

ORTHOPAEDIC SURGERY

Peer-Reviewed Articles continued:

Sabesan VJ, **Whaley JD**, LaVelle M, Petersen-Fitts G, Lombardo D, Yong D, et al. [Khan J]. Relationship between hospital size and teaching status on outcomes for reverse shoulder arthroplasty. *Musculoskelet Surg*, 2019 January 1.

Tenbrunsel TN, **Whaley JD**, **Golchian D**, Malone DL, Diego JLL, Sabesan VJ. Efficacy of imaging modalities assessing fatty infiltration in rotator cuff tears. *JBJS Reviews*, 2019;7(4).

PHARMACEUTICAL SERVICES

Peer-Reviewed Articles

Coletta MJ, Lis G, Clark P, Dabir R, **Daneshvar F**. Reducing new-onset atrial fibrillation after coronary artery bypass graft surgery. AACN Adv Crit Care, 2019 Fall;30(3):249-258.

Daneshvar F, Patel A, Mahmood R. A case of amiodarone-induced hypothyroidism complicated by torsades de pointes. Journal of American College of Cardiology, March 2019;73(9):Suppl 1.

Gandhi TN, Petty LA, Vaughn VM, Patel TS, Ratz D, Mclaughlin E, et al, [***Thyagarajan R, Hsaiky L**]. Assessment of fluoroquinolone appropriateness for hospitalized patients with asymptomatic bacteriuria and cystitis: A multi-hospital cohort study. Open Forum Infectious Diseases 6(Suppl 2):S393-S394.

Hanni CM, Wilhelm SM, Korkis B, Petrovitch EA, Tsilimingras KV, **McConachie SM**. Therapeutic enoxaparin in the morbidly obese patient: A case report and review of the literature. Hosp Pharm, 2019 Dec;54(6):371-377.

Hecht J, **Mahmood S**, Brandt M. Safety of high-dose intravenous labetalol in hypertensive crisis. American Journal of Health-System Pharmacy, Vol 76, Issue 5, 1 March 2019, p286–292.

McConachie SM, Caputo RA, Wilhelm SM, Kale-Pradhan PB. Efficacy of capsaicin for the treatment of cannabinoid hyperemesis syndrome: A systematic review. Ann Pharmacother, November 2019.

McConachie SM, Raub JN, Trupiano D, Yost R. Development of an iterative validation process for a 30-day hospital readmission prediction index. Am J Health Syst Pharm, 2019 March 19;76(7):444-452.

Petty LA, Vaughn VM, Flanders SA, Patel TS, Malani AN, Dumkow L, et al, [***Thyagarajan R, Hsaiky L**]. Risk factors associated with treatment of asymptomatic bacteriuria in the Emergency Department: A multi-hospital cohort study. Open Forum Infectious Diseases, 6(Suppl 2):S384-S385.

Vaughn VM, Petty LA, Ratz D, Malani AN, Mclaughlin E, Patel TS, et al, [**Hsaiky L**]. Antibiotic overuse at discharge in hospitalized patients with bacteriuria or treated for pneumonia: A multi-hospital cohort study. Open Forum Infectious Diseases, 6(Suppl 2):S78-S79, October 2019

Vaughn VM, Flanders SA, Snyder A, Conlon A, Rogers MAM, Malani AN, et al, [***Thyagarajan R, Hsaiky L**]. Excess antibiotic treatment duration and adverse events in patients hospitalized with pneumonia: A multihospital cohort study. Ann Intern Med, 2019 Aug 6;171(3):153-163.

PHARMACEUTICAL SERVICES

Abstracts with Associated Research Presentations:

Elabdallah M, Ibrahim I, Eljack A, Rehman T, Habbal H, et al, **Mohammad I**. Improving safety on long-term controlled substances via urine drug screening: An interprofessional approach. American College of Physicians Michigan Chapter Residents/Medical Students Day. Sterling Heights, MI, May 2019.

Gandhi TN, Petty LA, Vaughn VM, Patel TS, Ratz D, Mclaughlin E, et al, [***Thyagarajan R, Hsaiky L**]. Assessment of fluoroquinolone appropriateness for hospitalized patients with asymptomatic bacteriuria and cystitis: A multi-hospital cohort study. ID Week 2019, Washington, DC, October 2-6, 2019.

***Golom A, *Jennings S**. Direct oral anticoagulant vs. warfarin in morbidly obese patients for prevention of recurrent venous thromboembolism. Ohio Pharmacy Residency Conference, Ada, OH, May 2019.

Hsaiky L, *Attawala M, Martirosov D, *Thyagarajan R. Validation and development of a risk factor assessment tool for mrsa amongst patients undergoing elective orthopedic procedures. Ohio Pharmacy Residency Conference, Ada, OH, May 2019.

Hsaiky L, *Duong A, Addo H, Wallace L. Evaluating the rate of appropriate vaccine selection of a nursing-pharmacy led pneumococcal vaccine standing order. 54th ASHP Midyear Clinical Meeting and Expedition, Las Vegas, NV, December 2019

***Huynh D, Daneshvar F**. Assessment of the modified heparin management in left impella. ASHP Midyear Clinical Meeting & Exhibition, Las Vegas, NV, December 2019.

***Intig K, Jones J**. Medication use evaluation of albumin in critically ill/step down patients. ASHP Midyear Clinical Meeting & Exhibition, Las Vegas, NV, December 2019.

***Khodor Z, Dmitriy M, Hsaiky L**. Safety and efficacy of ertapenem versus alternative prophylaxis for colorectal surgery. Ohio Pharmacy Residency Conference, Ada, OH, May 2019.

Modi P, Shetty R, Hashim A, Hnayni W, Tataje G, Alkharoofa Z, et al, **Mohammad I**. Implementation of an interprofessional shared decision-making model for patients with uncontrolled diabetes. Michigan Summit on Quality Improvement and Patient Safety, Troy, MI, May 2019.

Mohammad I, Elteriefi R. Transforming Interprofessional Quality Improvement: What's Your Best Practice? Accreditation Council for Graduate Medical Education (ACGME) Annual Educational Conference, Orlando, FL, March 2019.

Mohammad I, Elabdallah M, Habbal H, John R, Elteriefi R. Improved urine drug screen monitoring on long-term controlled substances: an interprofessional approach. American College of Physicians Michigan Chapter, Troy, MI, May 2019.

Petty LA, Vaughn VM, Flanders SA, Patel TS, Malani AN, Dumkow L, et al, [***Thyagarajan R, Hsaiky L**]. Risk factors associated with treatment of asymptomatic bacteriuria in the emergency department: A multi-hospital cohort study. ID Week 2019, Washington, DC, October 2-6, 2019.

PHARMACEUTICAL SERVICES

Abstracts with Associated Research Presentations:

***Shammout L, Martirosov D, McConachie S.** Comparison of dose recommendations in commonly used medications based on multiple renal function estimation equations. ASHP Midyear Clinical Meeting & Exhibition, Las Vegas, NV, December 2019.

Vaughn VM, Petty LA, Gahndi TN, Kaye K, Malani A, Bernstein S, et al, [**Hsaiky L**]. Antibiotic overuse at discharge in hospitalized patients with bacteriuria or treated for pneumonia: A multi-hospital cohort study. SHMS 2019 Conference, San Diego, CA, April 15-18, 2019.

***Zaher S, Wilpula D.** Efficacy and safety of GLP-1 receptor agonists in patients with chronic kidney disease and type 2 diabetes: A systematic review and meta-analysis. Ohio Pharmacy Residency Conference, Ada, OH, May 2019.

PHYSICAL MEDICINE and REHABILITATIVE MEDICINE

Peer-Reviewed Articles:

Meythaler J, Fath J, Fuerst D, Zokary H, Freese K, Martin HB, et al, [Peduzzi-Nelson J, Roskos PT]. Safety and feasibility of minocycline in treatment of acute traumatic brain injury. *Brain Inj*, 2019;33(5):679-689.

PODIATRY

Peer-Reviewed Articles:

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