

CORE RESEARCH REPORT
 Department of Pediatric Surgery
 July – December 2022

A. SUBMITTED ABSTRACTS:

1. Laura Stafman, Matthew Lucas, Irving J. Zamora, Harold N. Lovvorn, III. Ultrasound-guided Laparoscopic Resection of Pediatric Solid Tumors. Submitted December 11, 2022 to IPEG.
2. Caroline M. Godfrey, MD; S. Barron Frazier, MD; Martin L. Blakely, MD, MS; Jennifer Overfield, MD; Melissa Danko, MD; Marta Hernanz-Schulman, MD; Anuradha Patel, MD; Monica E. Lopez, MD, MS. Consultation Timing Matters: Optimizing Utilization of Computed Tomography Imaging for Pediatric Appendicitis via Earlier Surgical Consultation (submitted Oct 1, 2022 to American Pediatric Surgery Association 2023 Annual Meeting)
3. Slagle JM, France DJ, Vogus TJ, Grubb P, Blakely ML, Rhodes EB, DeClercq J, Schrep E, Moroz S. The relationship between collective mindfulness and non-routine events in the delivery of perioperative care to neonates. Submitted to International Symposium on Human Factors and Ergonomics in Health Care, March 26-29, 2023, Orlando, FL.
4. Papastefan ST, Zeineddin SA, Blakely ML, Lovvorn HN, Raval MV, Lautz TB. Association between prophylactic antibiotics and risk of early infectious complications after pediatric central venous access. Submitted to American Pediatric Surgery Association annual meeting, May 10-13, 2023.
5. Marshall W. Wallace, BS, Jacob Olson, MD, Annette Vannilam, MD; Shannon McChesney, MD, Irving J. Zamora, MD, MPH. Successful Introduction of Robotic-Assisted Ileocecectomy into a Pediatric Surgery Practice. Video Presentation and abstract “Robotic ileocecectomy in a pediatric patient” for TNACS Aug. 2022
6. Marshall W. Wallace, BS, Jacob Olson, MD, Annette Vannilam, MD; Shannon McChesney, MD, Irving J. Zamora, MD, MPH. Building a Pediatric Robotic Surgery Program.
7. Longitudinal Pancreaticojejunostomy For Children With Hereditary Pancreatitis, American Pediatric Surgeons Association Annual Conference, Authors: Marshall Wallace, Jan Niec, Jennifer Huang, Harold Lovvorn.

B. ACCEPTED ABSTRACTS:

1. A Mina, G Nashed, H Correa, H Lovvorn. Outcomes and Histological Variations of Paraneoplastic Syndromes of Neuroblastoma and Ganglioneuroblastoma. SESC 2023 Annual Meeting February 11, 2023. Savannah, Georgia.
2. Orogastric tube position on preoperative radiographs predicts outcomes in neonatal CDH, American Surgical Congress (ASC), Houston, TX, February 2023, Authors: Marshall Wallace, Jan Niec, Joseph Oros, Melisa Holmes, Melissa Danko, Harold Lovvorn.
3. Poster Presentation: Development and Implementation of a Novel Post-Traumatic Stress Disorder Screening Initiative for Traumatically Injured Youth, ACS Trauma Quality Improvement Program (TQIP) Annual Conference, Phoenix, AZ, December 2022, Authors: Marshall Wallace, Stephanie Scott, Julie Garcia, Amber Greeno, Harold Lovvorn.
4. Blakely, ML. Adverse event rates and resource utilization association with different methods of laparoscopic appendectomy in children with uncomplicated appendicitis. APSA, Orlando, FL. May 2023.
5. Blakely, ML. Development and utility of a comparative performance report card for infection prevention and antimicrobial stewardship in children with advanced appendicitis. APSA, Orlando, FL. May 2023.
6. Blakely ML. Association Between Prophylactic Antibiotics and Risk of Early Infectious Complications After Pediatric Central Venous Access. APSA, Orlando, FL, May 2023.
7. ELSO Registry Neonatal Cannulation Project. ELSO Annual Meeting, Poster Presentation Boston, MA, September 14 -17, 2022. Danko M.
8. Orogastric tube location on preoperative radiographs predicts outcomes in neonatal CDH, Tennessee Chapter of the American College of Surgeons Annual Meeting, Nashville, TN, August 2022, Authors: Marshall Wallace, Jan Niec, Joseph Oros, Melisa Holmes, Melissa Danko, Harold Lovvorn.
9. Oral Presentation: Visceral Distribution of Ewing Sarcoma and an Analysis of Outcomes, Tennessee Chapter of the American College of Surgeons Annual Meeting, Nashville, TN, August 2022, Authors: Marshall Wallace, Jan Niec, Muhammad O Ghani, Mark Xu, Kaitlyn McKay, Scott Borenstein, Jiancong Liang, Harold Lovvorn.
10. Godfrey C, Frazier SC, Blakely M, Overfield J, Danko M, Hernanz-Schulman M, Patel A, Lopez ME. Reducing Computed Tomography Imaging for Suspected Appendicitis in the Pediatric Emergency Department. 2022 American College of Surgeons Quality and Safety Conference. Poster presentation. July 2022. Chicago, Illinois.
11. Huang EY, Blakely ML, Mock AJ, Rubadeau GE, Morris EA. Getting Babies Home Faster: Standardizing the Evaluation, Surgery and Discharge Preparation for Infants Who Need Gastrostomy Tubes. ACS Quality and Safety Conference, Chicago, IL, July 2022.

C. SUBMITTED MANUSCRIPTS:

1. Robertson SE, Rysavy M, Blakely ML, Steingrimsson JA, and Dahabreh IJ. Generalizability analyses with a partially nested trial design: the Necrotizing Enterocolitis Surgery Trial. *American Journal of Epidemiology*, submitted 12.22.22.
2. Wallace MW, Danko ME, Zamora IJ, Morris EA, Li J, Froehlich M, Robinson JR. Infectious Complications and Antibiotic Use in Gastroschisis. *Surgical Infections*.
3. Distribution and Surgical Management of Visceral Ewing Sarcoma Among Children and Adolescents, *Journal of Pediatric Surgery*, December 2022, Authors: Marshall Wallace, Jan Niec, Muhammad O Ghani, Mark Xu, Kaitlyn McKay, Kamran Idrees, Jiancong Liang, Scott Borinstein, Harold Lovvorn.
4. Heather M Wojcik, Harold N Lovvorn, III, Melinda Hollingshead, Janene Pierce, Howard Stotler, Andrew Murphy, Suzanne Borgel, Hannah M Phelps, Hernan Correa and Alan O Perantoni. Exploiting Embryonic Niche Conditions to Grow Wilms Tumor Blastema in Culture. *Frontiers in Oncology*, section Pediatric Oncology. 06 Nov 2022. Manuscript ID: 1091274.
5. Monica Lopez; Probe based near infrared autofluorescence (NIRAF) detection as non-invasive, label free parathyroid gland identification adjunct during thyroidectomy in children and adolescents, November 7, 2022.
6. Lee M, Hassanpour A, Fuller CL, Lopez ME, Baijal R. Procedure Time of Day Effects on the Chronobiology of Postoperative Opioid Requirements in Children. Submitted to *Journal of Clinical Anesthesia*, October 20, 2022.
7. Ryan H. Belcher MD MPH, Giju Thomas PhD, Parker A. Willmon BS, Jean-Nicolas Gallant MD PhD, Naira Baregamian MD MMS, Monica E. Lopez MD MS, Carmen C. Solórzano MD, and Anita Mahadevan-Jansen MS PhD. Parathyroid identification in pediatric thyroid and parathyroid surgery with near infrared autofluorescence detection. Submitted to *The Laryngoscope*, October 19, 2022.
8. Zamora IJ, *Fundamentals of Pediatric Surgery, Enhanced Recovery After Surgery Protocols (ERAS): The Next Generation of Perioperative Quality Improvement, Safety, and Innovation*. DOI : 10.1007/978-3-031-07524-7 Sept. 2022, Springer
9. Chotai PN, Slagle A, Duncan J, Talati AJ, Schenone M, Langham ML, Zhao S, Huang EY. Are Gastroschisis Patients at Risk for Intestinal Ischemia Identifiable at the Time of Initial Neonatal Evaluation? Submitted to *Journal of Pediatric Surgery*, Aug 31.

D. ACCEPTED & PUBLISHED MANUSCRIPTS :

1. Wallace MW, Niec JA, Ghani MOA, McKay KG, Idrees K, Liang JC, Borinstein SC, Lovvorn HN 3rd: Distribution and Surgical Management of Visceral Ewing Sarcoma Among Children and Adolescents. *J Pediatr Surg*. Jan 14, 2023 (in press).
2. Light-Olson H, Niec JA, Zwaschka TA, Wong G, Ragheb D, Oros J, Correa H, Lopez ME, Stafman LL, Lovvorn HN 3rd: Minimally invasive adnexa-sparing surgery for benign ovarian and paratubal masses in children. *J Pediatr Surg*. 2022 Dec (Online ahead of print). PMID: 36670003
3. Slagle JM, France DJ, Vogus TJ, Grubb P, Blakely ML, Rhodes EB, DeClercq J, Schrep E, Moroz S. The relationship between collective mindfulness and non-routine events in the delivery of perioperative care to neonates. Submitted to *International Symposium on Human Factors and Ergonomics in Health Care*, March 26-29, 2023, Orlando, FL.
4. Cramm SL, Graham DA, Allukian M, Blakely ML, Chandler NM, Cowles RA, Feng C, Kunisaki SM, Russell RT, Santore MT, DeFazio JR, Scholz SM, Aronowitz DI, Campbell BT, Collins DT, Commander SJ, Dantes G, Dukleska K, Engwall-Gill A, Esparaz JR, Gerall C, Griggs CL, Hanna DN, Lamoshi A, Lipskar AM, Orlas Bolanos CP, Pace E, Tracy ET, Williams S, Zhang L, Rangel SJ. Predictive value of a routine white blood cell count obtained prior to discharge for organ space infection in children with complicated appendicitis: results from the Eastern Pediatric Surgery Network. *J Am Coll Surg* 2022 Dec 12. PMID: 36503868.
5. Rizvi RF, VanHouten CB, Willis VC, Rosario BL, South BR, Sands-Lincoln M, Brotman D, Lenert J, Snowdon JL, Jackson GP. Understanding a care management system's role in influencing a transitional-aged youth program's practice: mixed methods study. *Journal of Medical Internet Research (JMIR) Human Factors*. 2022 Dec 16, 9(4):e39646. doi: 10.2196/39646. PMID: 36525294.
6. Rausch LA, Hanna DN, Patel A, Blakely ML. Review of Necrotizing Enterocolitis and Spontaneous Intestinal Perforation Clinical Presentation, Treatment, and Outcomes. *Clin Perinatol*. 2022 Dec;49(4):955-964. doi: 10.1016/j.clp.2022.07.005. Epub 2022 Oct 9. PMID: 36328610.
7. Evans LL, Chen CS, Muensterer OJ, Sahlabadi M, Lovvorn HN, Novotny NM, Upperman JS, Martinez JA, Bruzoni M, Dunn JCY, Harrison MR, Fuchs JR, Zamora IJ. The novel application of an emerging device for salvage of primary repair in high-risk complex esophageal atresia. *J Pediatr Surg*. 2022 Dec;57(12):810-818. doi: 10.1016/j.jpedsurg.2022.05.018. Epub 2022 May 29. PMID: 35760639.
8. Validation of Prediction Rules for Computed Tomography Use in Children With Blunt Abdominal or Blunt Head Trauma: Protocol for a Prospective Multicenter Observational Cohort Study. Ugalde IT, Chaudhari PP, Badawy M, Ishimine P, McCarten-Gibbs KA, Yen K, Atigapramoj NS, Sage A, Nielsen D, Adelson PD, Upperman J, Tancredi D, Kuppermann N, Holmes JF. *JMIR Res Protoc*. 2022 Nov 24;11(11):e43027. doi: 10.2196/43027. PMID: 36422920.
9. Hanna DN, Haddadin Z, Stafman L, Godfrey CM, Huang EY, Aiello B, Greeno AL, Unni P, Lovvorn HN 3rd. Sledding while towed behind motorized vehicles associates with more severe and lethal injuries. *J Pediatric Surg*. 2022 Nov;57(11):644-648. doi: 10.1016/j.jpedsurg.2022.03.011. Epub 2022 Mar 16. PMID: 35396085.

10. Huang EY, Blakely ML, Lally KP. Invited Commentary: Building Collaboratives to Improve Research Quality in Pediatric Surgery: It's More Than Just Numbers. *J Am Coll Surg.* 2022 Dec 1;235(6):961-963. doi: 10.1097/XCS.0000000000000405. Epub 2022 Nov 15. PMID: 36102531.
11. Dupree HL, Bridges BC, Chapman RL, Danko ME, Schumacher RE, Patrick SW. Trends in Neonatal Extracorporeal Membrane Oxygenation During a Venovenous Cannula Shortage. *Pediatric Critical Care Medicine,* 2022 Nov 17 v.23 isu 11 DOI: 10.1097/PCC.0000000000003126.
12. Robinson JR, Carroll RJ, Bastarache L, Chen Q, Mou Z, Wei WQ, Connolly J, Mentch F, Crane PK, Hebbring SJ, Crosslin DR, Gordon AS, Rosenthal EA, Stanaway IB, Hayes G, Wei W, Petukhova L, Namjou B, Zhang G, Safarova MS, Walton NA, Still C, Bottinger EP, Loos RJF, Murphy SN, Jackson GP, Kullo IJ, Jarvik GP, Larson EB, Weng C, Roden D, Denny, JC. Quantifying the Phenome-wide Disease Burden of Obesity using Electronic Health Records and Mendelian Randomization. *Obesity.* 2022 Nov 13. PMID 36372681.
13. Strategies for Safely Maintaining Surgical Volume During the COVID-19 Pandemic: A Mixed-Methods Study. Kinch JS, Isenberg K, Vaughn L, Shultz B, Upperman JS. *AORN J.* 2022 Nov;116(5):416-424. doi: 10.1002/aorn.13807. PMID: 36301057.
14. Association of red blood cell transfusion volume with postoperative complications and mortality in neonatal surgery. Mehl SC, Portuondo JI, Pettit RW, Fallon SC, Wesson DE, Massarweh NN, Shah SR, Lopez ME, Vogel AM. *J Pediatr Surg.* 2022 Nov;57(11):492-500. doi: 10.1016/j.jpedsurg.2021.12.025. Epub 2022 Jan 10. PMID: 35148899
15. Blakely ML, Rysavy MA, Lally KP, Eggleston B, Pedroza C, Tyson JE. Special considerations in randomized trials investigating neonatal surgical treatments. *Semin Perinatol.* 2022 Nov;46(7):151640. doi: 10.1016/j.semperi.2022.151640. Epub 2022 Jun 10. PMID: 35811154; PMCID: PMC9529875.
16. Cramm SL, Chandler NM, Graham DA, Kunisaki SM, Russell RT, Blakely ML, Lipskar AM, Allukian M, Aronowitz DI, Campbell BT, Collins DT, Commander SJ, Cowles RA, DeFazio JR, Esparaz JR, Feng C, Griggs CL, Guyer RA, Hanna DN, Kahan AM, Keane OA, Lamoshi A, Lopez CM, Pace E, Regan MD, Santore MT, Scholz S, Tracy ET, Williams SA, Zhang L, Rangel SJ. Association between Antibiotic Redosing Prior to Incision and Risk of Incisional Site Infection in Children with Appendicitis. *Ann Surg.* 2022 Nov 1. doi: 10.1097/SLA.0000000000005747. Epub ahead of print. PMID: 36317528.
17. Olson SL, Ingram ME, Samis J, Josefson JL, Rastatter JC, Rothstein DH, Danko ME, Moriarty KP, Rich BS, Raval MV; American Academy of Pediatrics Section on Surgery Delivery of Surgical Care Committee. Surgeon perceptions of volume threshold and essential practices for pediatric thyroidectomy. *J Pediatr Surg.* 2022 Oct;57(10):414-420. doi: 10.1016/j.jpedsurg.2022.01.001
18. Association of prematurity with complications and failure to rescue in neonatal surgery. Mehl SC, Portuondo JI, Pettit RW, Fallon SC, Wesson DE, Shah SR, Vogel AM, Lopez ME, Massarweh NN. *J Pediatr Surg.* 2022 Oct;57(10):268-276. doi: 10.1016/j.jpedsurg.2021.10.050. Epub 2021 Nov 6. PMID: 34857374
19. Building an optimal pediatric trauma program. Upperman JS. *J Trauma Acute Care Surg.* 2023 Jan 1;94(1S Suppl 1):S19-S21. doi: 10.1097/TA.0000000000003800. Epub 2022 Oct 7. PMID: 36203238
20. Vernamonti J, Bowen-Jallow K, Paredes A, Cockrell H, Morrison Z, Huerta CT, Garcia A, Meckmongkol TT, Oyetunji TA, Ramos-Irizarry CT, Diaz-Miron J, Siddiqui S, Zamora I, Stallion A, Martin K, Reyes C, Newman EA. APSA Members experience bias and discrimination in training and practice. *J Pediatr Surg.* 2022 Sep 26:S0022-3468(22)00629-7. doi: 10.1016/j.jpedsurg.2022.09.038. Epub ahead of print. PMID: 36280463.
21. Vernamonti J, Bowen-Jallow K, Paredes A, Cockrell H, Morrison Z, Huerta CT, Garcia A, Meckmongkol TT, Oyetunji TA, Ramos-Irizarry CT, Diaz-Miron J, Siddiqui S, Zamora I, Stallion A, Martin KL, Reyes C, Newman EA. Diversity and demographics of APSA members: Understanding our identity. *J Pediatr Surg.* 2022 Sep 26:S0022-3468(22)00628-5. doi: 10.1016/j.jpedsurg.2022.09.035. Epub ahead of print. PMID: 36280465.
22. Haddadin Z, Halasa N, McHenry R, Varjabedian R, Lynch TL, Chen H, Abdul, Ghani MO, Schmitz JE, Sucre J, Isenberg K, Zamora I, Danko M, Blakely M, Olson, J, Jackson GP, Lovvorn HN 3rd. SARS-CoV-2 Testing of Aerosols Emitted During Pediatric Minimally Invasive Surgery: A Prospective, Case-Controlled Study. *Am Surg.* 2022 Nov;88(11):2710-2718. doi: 10.1177/00031348211067707. Epub 2022 Feb 11. PMID: 35148619.
23. Gordon WJ, Ikoma N, Lyu H, Jackson GP, Landman A. Protecting procedural care—cybersecurity considerations for robotic surgery. *npj Digital Medicine.* 2022 Sep 20, 5(1):148. doi: 10.1038/s41746-022-00693-8. PMID: 36127420.
24. Doerstling S, Winski D, Katsoulakis E, Agarwal P, Poonnen PJ, Snowdon JL, Jackson GP, Weeraratne D, Kelley MJ, Vashistha V. Mutational profiles of head and neck squamous cell carcinomas based upon human papillomavirus status in the Veterans Affairs National Precision Oncology Program. *Journal of Cancer Research and Clinical Oncology.* 2022 Sep 18. doi: 10.1007/s00432-022-04358-7. Online ahead of print. PMID: 36117189.
25. Association between COVID-19 related elective surgery cancellations and pediatric inguinal hernia complications: A nationwide multicenter cohort study. Hu A, Reiter AJ, Gerardo R, Skertich NJ, Lewit R, Ghani M, Witte A, Kang HS, Richards H, Perry B, Tian Y, Mehl SC, Gonzalez A, Novotny NM, Haynes J, Aranda A, Zamora IJ, Rhee D, Fialkowski E, Slater BJ, Van Arendonk K, Gosain A, Lopez ME, Raval MV. *Surgery.* 2022 Sep;172(3):989-996. doi: 10.1016/j.surg.2022.05.011. Epub 2022 May 20. PMID: 35738913
26. Hu A, Reiter AJ, Gerardo R, Skertich NJ, Lewit R, Ghani M, Witte A, Kang HS, Richards H, Perry B, Tian Y, Mehl SC, Gonzalez A, Novotny NM, Haynes J, Aranda A, Zamora IJ, Rhee D, Fialkowski E, Slater BJ, Van Arendonk K, Gosain A, Lopez ME, Raval MV. Association between COVID-19 related elective surgery cancellations and pediatric inguinal hernia

- complications: A nationwide multicenter cohort study. *Surgery*. 2022 Sep;172(3):989-996. doi: 10.1016/j.surg.2022.05.011. Epub 2022 May 20. PMID: 35738913; PMCID: PMC9374501.
27. Baird R, Puligandla P, Lopushinsky S, Blackmore C, Krishnaswami S, Nwomeh B, Downard C, Ponsky T, Ghani MO, Lovvorn HN 3rd. Virtual curriculum delivery in the COVID-19 era: the pediatric surgery boot camp v2.0. *Pediatr Surg Int*. 2022 Oct;38(10):1385-1390. doi: 10.1007/s00383-022-05156-5. Epub 2022 Jul 9. PMID: 35809106; PMCID: PMC9455938.
 28. McKay KG, Hanna DN, Martin L, Danye KA, Crane GL, Correa H, Lovvorn HN 3rd, Solorzano CC, Zamora IJ. Intraoperative Ultrasound Guided Laparoscopic Spleen-Preserving Distal Pancreatectomy for Primitive Neuroendocrine Tumors in a Pediatric Patient with MEN-1. *Am Surg*. 2022 Sep;88(9):2241-2243 doi: 10.1177/00031348221093802. PMID: 35471864.
 29. Krishnaswami S, Polites SF, Dekany G, Gaines BA, Nwomeh BC, Huang EY, Finck CM, Lopushinsky SR, Puligandla PS, Feliz A, Mak GZ, Anderson SA, Fairbanks T, Alaish SM. The First Two Years of the Association of Pediatric Surgery Training Program Directors (APSTPD) Transition to Fellowship Course: Lessons Learned and Future Directions. *J Surg Educ*. 2022 Sep 7:S1931-7204(22)00216-1. doi: 10.1016/j.jsurg.2022.08.006. Epub ahead of print. PMID: 36085115.
 30. Russell RG, Novak LL, Patel M, Garvey KV, Craig KJT, Jackson GP, Moore D, Miller BM. Competencies for the use of artificial intelligence-based tools by healthcare professionals. *Academic Medicine*. 2022, September 06. doi: 10.1097/ACM.0000000000004963.
 31. National blood shortage: A call to action from the trauma community. Stein DM, Upperman JS, Livingston DH, Andrews J, Bulger EM, Cohen MJ, Eastridge BJ, Fontaine MJ, Guillaumondegui O, Hess JR, Jenkins DH, Kaups KL, Nance ML, Spinella PC, Zarzaur BL, Zonies D, Coimbra R. *J Trauma Acute Care Surg*. 2022 Sep 1;93(3):e119-e122. doi: 10.1097/TA.0000000000003715. Epub 2022 May 25. PMID: 35610747
 32. Ghani MOA, Snyder E, Xu MC, McKay KG, Foster J, Tong C, Clayton, DB, Greeno, A, Azam B, Zhao S, Hernanz-Schulman M, Lovvorn HN 3rd. Urine leaks in Children sustaining blunt renal trauma. *J Trauma Acute Care Surg*. 2022 Sep 1;93(3):376-384. doi: 10.1097/TA.0000000000003532. Epub 2022 Jan 5. PMID:34991128.
 33. Chotai PN, Slagle A, Duncan J, Talati AJ, Schenone M, Langham ML, Zhao S, Huang EY. Are Gastroschisis Patients at Risk for Intestinal Ischemia Identifiable at the Time of Initial Neonatal Evaluation? Submitted to *Journal of Pediatric Surgery*, Aug 31.
 34. Levine DM, Samal L, Neville BA, Burdick E, Wien M, Rodriguez JA, Ganesan S, Blitzer SC, Yuan NH, Ng K, Park Y, Rajmane A, **Jackson GP**, Lipsitz SR, Bates DW. The association of the first surge of the COVID-19 pandemic with the high- and low-value outpatient care delivered to adults in the USA. *Journal of General Internal Medicine*. 2022 Aug 24, 1–10. doi: 10.1007/s11606-022-07757-1. Epub ahead of print. PMID: 36002691; PMCID: PMC9400559.
 35. Hegde B, Garcia E, Hu A, Raval M, Takirambudde S, Wakeman D, Lewit R, Gosain A, Parrado RH, Cina RA, Stephenson K, Dassinger MS 3rd, Zhang D, Mustafa MM, Koo D, Lipskar AM, Scheidler K, Van Arendonk KJ, Berg P, Gonzalez R, Scheese D, Haynes J, Mina A, Zamora IJ, Lopez ME, Mehl SC, Gilliam E, Lofberg K, Spencer B, Kulaylat AN, Gulack BC, Johnson M, Laskovy M, Brahmamdam P, Shimomura A, Blanch T, Tsao K, Slater BJ. Management of pediatric appendicitis during the COVID-19 pandemic: A nationwide multicenter cohort study. *J Pediatr Surg*. 2022 Aug 13:S0022-3468(22)00512-7. doi: 10.1016/j.jpedsurg.2022.08.005. Epub ahead of print. PMID: 36075771; PMCID: PMC9374489.
 36. Allen JH, Yengo-Kahn AM, Cools MJ, Greeno A, Ghani MOA, Unni P, Martus JE, Lovvorn HN, Bonfield CM. Pediatric spinal injury patterns and management in all-terrain vehicle and dirt bike crashes, 2010-2019. *J Neurosurg Pediatr*. 2022 Aug 12:1-8. doi: 10.3171/2022.7.PEDS22178. Epub ahead of print. PMID: 35962971.
 37. Variation in Complications and Mortality According to Infant Diagnosis. Mehl SC, Portuondo JI, Fallon SC, Shah SR, Wesson DE, Vogel AM, King A, Lopez ME, Massarweh NN. *Ann Surg*. 2022 Aug 9. doi: 10.1097/SLA.0000000000005658. Online ahead of print. PMID: 35943204
 38. Emani S, Rui A, Rocha HAL, Rizvi RF, Juaçaba SF, Jackson GP, Bates DW. Physicians' perceptions of and satisfaction with artificial intelligence in cancer treatment: a clinical decision support system experience and implications for low-middle-income countries. *JMIR Cancer*. 2022, 8(2):e31461. doi: 10.2196/31461. PMID: 35389353. PMID: 35389353.
 39. Schember CO, Scott SE, Jenkins CA, Rebeiro PF, Turner M, Furukawa SS, Bofill C, Yan Z, Jackson GP, Pettit AC. Electronic patient portal access, retention in care, and viral suppression among people living with HIV in southeastern United States: observational study. *Journal of Medical Internet Research (JMIR) Medical Informatics*. 2022 Jul 25;10(7):e34712. doi: 10.2196/34712. PMID: 35877160.
 40. Niec JA, Achey MA, Wallace MW, Patel A, Zhao S, Hatch LD, Morris EA, Danko ME, Pietsch JB, Lovvorn HN. Congenital Diaphragmatic Hernia Repair at the Bedside or Operating Theater. *Am Surg*. 2022 Aug;88(8):1814-1821. doi: 10.1177/00031348221084941. Epub 2022 Mar 25. PMID: 35337188.
 41. Reynolds RA, Kelly KA, Ahluwalia R, Zhao S, Vance EH, Lovvorn HN, Hanson H, Shannon CN, Bonfield CM. Protocolized management of isolated linear skull fractures at a level 1 pediatric trauma center. *J Neurosurg Pediatr*. 2022 Jul 1:1-8. doi: 10.3171/2022.6.PEDS227. Epub ahead of print. PMID: 35901741.
 42. Al-Hadidi A, Rinehardt HN, Sutthartarn P, Talbot LJ, Murphy AJ, Whitlock R, Condon S, Naik-Mathuria B, Utria AF, Rothstein DH, Chen SY, Wong- Michalak S, Kim ES, Short SS, Meyers RL, Kastenber JZ, Johnston ME 2nd, Zens T, Dasgupta R, Malek MM, Calabro K, Piché N, Callas H, Lautz TB, McKay K, Lovvorn HN 3rd, Commander SJ, Tracy ET, Lund SB, Polites SF, Davidson J, Dhooma J, Seemann NM, Marquart JP, Gainer H, Lal DR, Rich BS, Glick RD, Maloney L, Radu S, Fialkowski EA, Kwok PE, Romao RLP, Rubalcava N, Ehrlich PF, Newman E, Diehl T, Le HD, Polcz V, Petroze RT, Stanek J, Aldrink JH. Incidence and management of Pleural effusions in patients with Wilms tumor: A Pediatric Surgical

- Oncology Research Collaborative study. *Int J Cancer*. 2022 Nov 15;151(10):1696-1702. doi: 10.1002/ijc.34188. Epub 2022 Jul 14. PMID: 35748343.
43. Patel AD, D'Cruz R, Olson J, Lucas M, Baron CM, Novotny NM, Zamora JJ, Lovvorn HN 3rd. Endoluminal Silicone-Covered Stenting in Children: Novel Applications and Lessons Learned. *Am Surg*. 2022 Jul;88(7):1557-1560. doi:10.1177/00031348221083950. Epub 2022 Apr 20. PMID: 35442816.
 44. McKillop MM, VanHouten C, Bales C, Felix W, Hekmat R, Jackson GP. Assessing and addressing COVID-19 information needs via a weather application. *JAMIA Open*. 2022, 5(1): 1-6. <https://doi.org/10.1093/jamiaopen/ooac016>. PMID: 35502405.
 45. Emani S, Rui A, Rocha HAL, Rizvi RF, Juaçaba SF, Jackson GP, Bates DW. Physicians' perceptions of and satisfaction with artificial intelligence in cancer treatment: a clinical decision support system experience and implications for low-middle-income countries. *JMIR Cancer*. 2022, 8(2):e31461. doi: 10.2196/31461. PMID: 35389353. PMID: 35389353.
 46. Cramm SL, Chandler NM, Graham DA, Kunisaki SM, Russell RT, Blakely ML, Lipskar AM, Allukian M, Aronowitz DI, Campbell BT, Collins DT, Commander SJ, Cowles RA, DeFazio JR, Esparaz JR, Feng C, Griggs CL, Guyer RA, Hanna DN, Kahan AM, Keane OA, Lamoshi A, Lopez CM, Pace E, Regan MD, Santore MT, Scholz S, Tracy ET, Williams SA, Zhang L, Rangel SJ. Association between antibiotic redosing prior to incision and risk of incisional site infection in children with appendicitis. *Ann Surg* 2022, PMID 36317528.
 47. Huang EY, Blakely ML, Lally KP. Invited commentary. Building collaboratives to improve research quality in pediatric surgery: it's more than just numbers. *J Am Coll Surg* 2022, PMID 36102531.
 48. Huang EY, Jackson GP. Quality, Safety, and the Electronic Medical Record. In JR Romanelli, JM Dort, RB Kowalski, P Sinha (editors): *The SAGES Manual of Quality, Outcomes and Patient Safety*, 2nd ed. Switzerland, Springer, 2022, pp.407-418.
 49. Krishnaswami S, Polites SF, Dekany G, Gaines BA, Nwomeh BC, Huang EY, Finck CM, Lopushinsky SR, Puligandla PS, Feliz A, Mak GZ, Anderson SA, Fairbanks T, Alaish SM. The First Two Years of the Association of Pediatric Surgery Training Program Directors (APSTPD) Transition to Fellowship Course: Lessons Learned and Future Directions. *Journal of Surgical Education*, accepted.
 50. Huang EY, Jackson GP. Quality, Safety, and the Electronic Medical Record. In JR Romanelli, JM Dort, RB Kowalski, P Sinha (editors): *The SAGES Manual of Quality, Outcomes and Patient Safety*, 2nd ed. Switzerland, Springer, 2022, pp.407-418. ISBN 978-3-030-94609-8 <https://doi.org/10.1007/978-3-030-94610-4>
 51. Reiter AJ, Ingram ME, Raval MV, Garcia E, Hill M, Aranda A, Chandler N, Gonzalez R, Born K, Mack S, Lamoshi A, Lipskar AM, Han X, Fialkowski E, Spencer B, Kulaylat AN, Barde A, Shah AN, Adoumie M, Gross E, Mehl SC, Lopez ME, Polcz V, Mustafa MM, Gander J, Sullivan TM, Sulkowski JP, Ghani O, Huang EY, Rothstein D, Muenks, EP, St. Peter, SD, Fisher JC, Levy-Lambert D, Reichl A, Ignacio RC, Slater BJ, Taso K, Berman L. Postoperative Respiratory Complications in SARS-CoV-2 Positive Pediatric Patients across 20 United States Hospitals: A Cohort Study. Accepted to *Journal of Pediatric Surgery*.
 52. Rausch LA, Hanna DN, Patel A, Blakely ML. Review of necrotizing enterocolitis and spontaneous intestinal perforation: clinical presentation, treatment, and outcomes. *Clin Perinatol* 2022;49(4):955-964. PMID 36328610.
 53. Emani S, Rui A, Rocha HAL, Rizvi RF, Juaçaba SF, Jackson GP, Bates DW. Physicians' perceptions of and satisfaction with artificial intelligence in cancer treatment: a clinical decision support system experience and implications for low-middle-income countries. *JMIR Cancer*. 2022, 8(2):e31461. doi: 10.2196/31461. PMID: 35389353. PMID: 35389353.
 54. McKillop MM, VanHouten C, Bales C, Felix W, Hekmat R, Jackson GP. Assessing and addressing COVID-19 information needs via a weather application. *JAMIA Open*. 2022, 5(1): 1-6. <https://doi.org/10.1093/jamiaopen/ooac016>. PMID: 35502405.
 55. Lehmann CU, Brennan PF, Detmer DE, Jackson GP, Ohno-Machado L, Safran C, Williamson JJ, Shortliffe EH. A tribute to Karen Greenwood and her contributions to the American Medical Informatics Association. *Journal of the American Medical Informatics Association (JAMIA)*. 2022, 00(0), 1-3. <https://doi.org/10.1093/jamia/ocao039>. PMID: 35303086.
 56. Haddadin Z, Halasa N, McHenry R, Varjabedian R, Lynch TL, Chen H, Ghani MOA, Schmitz JE, Sucre J, Isenberg K, Zamora I, Danko M, Blakely M, Olson J, Jackson GP, Lovvorn III HR. SARS-CoV-2 testing of aerosols emitted during pediatric minimally invasive surgery: a prospective, case-controlled study. *The American Surgeon*. 2022, February. doi:10.1177/00031348211067707. PMID: 35148619.
 57. Bates DW, Syrowatka A, Rhee K, Jackson GP, Alfayez A, Kunz H. Call for better systems and data to support artificial intelligence for pandemic response. *BMJ Health Care Inform*. 2022, 29(1):e100506. doi: 10.1136/bmjhci-2021-100506. PMID: 35074790. PMCID: PMC: 8787826.

E. GRANTS AWARDED (NEW):

1. Principal Investigator: Irving Zamora

PROJECT TITLE: Measures of immunocoagulopathy distinguish surgical necrotizing enterocolitis from spontaneous intestinal perforation and predict multiorgan dysfunction syndrome and death in premature infants

Surgical Infection Society

Dates of Award: July 1, 2022 – June 30, 2023

US \$33,150.00