

Annual Report of the Academic Output of DCRI Clinical Research Fellows

Academic Year: July 2022 – June 2023

Training

Medical School (2013-2017): University of Florida College of Medicine, Jacksonville, FL

Pediatric Residency (2017-2020): Nationwide Children’s Hospital, Columbus, OH

Pediatric Infectious Diseases Fellowship (2020-2023): Duke University Medical Center, Durham, NC

Clinical Research Fellowship (2021-2023): Duke Clinical Research Institute, Durham, NC

Awards/Grants

NIH Loan Repayment Program (July 2021 – June 2023): \$100,000 in loan repayment support from National Institute for Allergy and Infectious Diseases

NICHD T32 Duke/UNC Unified Program for Therapeutics in Children Grant (2021-2023): Salary Support

Y. T. Chen Award for Outstanding Contribution to Discovery Science, Duke University (7/2022)

IDWeek 2022 IDSA Travel Award – (10/2022)

Quantitative Training

UNC Gillings School of Global Public Health – Master of Public Health Degree, Applied Epidemiology Concentration – (Graduated 5/2023)

KENNETH TAYLOR, PT, DPT – CO-CHIEF FELLOW

Training

Physical Therapy School (2011-2014): University of Indianapolis, Indianapolis, IN

Orthopaedic Physical Therapy Residency (2014-2015): James A. Haley Veterans' Hospital, Tampa, FL

Graduate Certificate, Applied Biostatistics (2016): University of South Florida College of Public Health, Tampa, FL

PhD, Public Health/Epidemiology (2017-2021): University of South Florida College of Public Health, Tampa, FL

Clinical Research Fellowship (2021-2023): Duke Clinical Research Institute, Durham, NC

Awards

DCRI Fellowship Citizenship Award, May 2023

Quantitative Training

Target Trial Emulation. Non-Degree Course: T.H. Chan School of Public Health, Harvard University, Boston, MA, 2022.

ALEXANDER GRAHAM, MD

Training

Medical School (2013-2017): Sidney Kimmel Medical College, Thomas Jefferson University, Philadelphia, PA

Residency (2017-2020): Beth Israel Deaconess Medical Center, Boston, MA

Pulmonary & Critical Care Fellowship (2020-2023): Duke University Medical Center, Durham, NC

Clinical Research Fellowship (2022-2023): Duke Clinical Research Institute, Durham, NC

Awards

Gliptin Use and Impact on Chronic Lung Allograft Rejection, Cystic Fibrosis Foundation

Quantitative Training

Clinical Research Training Program, Masters of Health Sciences in Clinical Research, Duke University School of Medicine, Durham, NC (anticipated degree June 2024)

DANIEL GUIDOT, MD, MPH

Training

Medical School (2013-2017): Emory University School of Medicine, Atlanta GA,

Residency (2017-2020): University of Texas Southwestern, Dallas TX, 2017-2020

Clinical Fellowship (2020-2023) – Duke University Medical Center, Durham NC

Clinical Research Fellowship (2022-present): Duke Clinical Research Institute, Durham, NC

Awards/Grants:

Mario Family Foundation Grant

Duke Institute for Health Innovation Grant

Duke Clinical Research Institute Executive Director Pathway Grant (2023), (with co-fellow Joseph Lerman)

JOSEPHINE HARRINGTON, MD

Training

Medical School (2011-2016): University of Massachusetts Medical School, Worcester, MA

Residency (2016-2019): University of Texas Southwestern, Dallas, TX

Cardiovascular Disease Fellowship (2019-present): Duke University Medical Center, Durham, NC

Clinical Research Fellowship (2021-2023): Duke Clinical Research Institute, Durham, NC

Awards/Grants

DCRI Robert A. Harrington Excellence in Fellowship Award, May 2023

Submitted Mario Award (awaiting decision)

Quantitative Training

Clinical Research Training Program, Masters of Health Sciences in Clinical Research, Duke University School of Medicine, Durham, NC (anticipated degree Fall 2023)

RYAN KILPATRICK, MD

Training

Medical School (2013–2017): Loyola University Stritch School of Medicine, Maywood, IL

Pediatrics Residency (2017–2020): Floating Hospital for Children at Tufts Medical Center, Boston, MA

Neonatal-Perinatal Fellowship (2020–2023): Duke University Medical Center, Durham, NC

Clinical Research Fellowship (2021–2023): Duke Clinical Research Institute, Durham, NC

Quantitative Training

Clinical Research Training Program, Masters of Health Sciences: Duke University School of Medicine, Durham, NC (anticipated degree, Fall 2023)

KONSTANTIN KRYCHTIUK, MD, PHD

Training

Medical School (2004-2011; 6 years): Medical University of Vienna, Vienna, Austria

PhD, Vascular Biology (2011-2016): Medical University of Vienna, Vienna, Austria

Residency (2014-2020): Medical University of Vienna, Vienna, Austria

Clinical Fellowship (2020-2021; paused): Cardiology and Critical Care, Medical University of Vienna, Vienna, Austria

Clinical Research Fellowship (2021-2023): Duke Clinical Research Institute, Durham, NC

Awards/Grants

Duke Clinical Research Institute Executive's Director Pathway Research Fellows Award (2022 & 2023)

JOSEPH LERMAN, MD

Training

Medical School (2012-2017): Icahn School of Medicine at Mount Sinai, New York, NY

Residency (2017-2020): Department of Medicine, Duke University School of Medicine, Durham, NC

Cardiovascular Disease Fellowship (2020-present): Duke University Medical Center, Durham, NC

Clinical Research Fellowship (2022-present): Duke Clinical Research Institute, Durham, NC

Awards/Grants

NIH 5T32HL069749-19 (Postdoctoral Training in Cardiovascular Clinical Research. PI: Dr Daniel Mark)

Mayo Clinic Cardiovascular Board Review Course Scholarship Recipient

Duke Clinical Research Institute Executive Director Pathway Grant (2023), (with co-fellow Daniel Guidot)

ALICJA MASTYLAK, MSc

Training

Bachelors of Science (BSc) (2017-2022): European Public Health (Cum Laude), Maastricht University, Netherlands

Master of Science (MSc) (2021-2022): Health Economics Policy and Law, Erasmus University, Rotterdam, Netherlands

Clinical Research Fellowship (2023-present): Duke Clinical Research Institute, Durham, NC

Awards/Grants

Duke Clinical Research Institute Executive Director Pathway Grant (2023)

AHMAD MOURAD, MD

Training

Medical School (2012-2016): American University of Beirut (AUB), Lebanon

Residency (2018-2021): Department of Medicine, Duke University School of Medicine, Durham, NC

Clinical Infectious Diseases Fellowship (2021-present): Duke University School of Medicine, Durham, NC

Clinical Research Fellowship (2022-present): Duke Clinical Research Institute, Durham, NC

Awards/Grants

Center for AIDS Research (CFAR), National Institutes of Health

Title: Understanding monkeypox care and outcomes among people living with HIV

(Mentor: Jason Stout, MD) Role: Co-Principal Investigator

Quantitative Training

Clinical Research Training Program, Master of Health Sciences, Duke University School of Medicine, Durham, NC, (2022, anticipated degree 2024)

ANTHONY PETERS, MD

Training

Medical School (2011-2015): University of North Carolina School of Medicine, Chapel Hill, NC

Internal Residency (2015-2018): University of Virginia Health System, Charlottesville, VA

Internal Chief Resident: (2018-2019): University of Virginia Health System, Charlottesville, VA

Cardiovascular Disease Fellowship (2019-2023): Duke University Medical Center, Durham, NC

Clinical Research Fellowship (2021-2023): Duke Clinical Research Institute, Durham, NC

Awards/Grants

Duke Clinical Research Institute Executive Director's Pathway Research Fellows Grant, 2022

Emerging Investigator, Circulation: Heart Failure, 2023

DCRI Eric D. Peterson Fellowship Manuscript Award, May 2023

Young Trialist Grant, Global Cardiovascular Clinical Trialists Forum, 2022

Training

Medical School (2011-2015): University of North Carolina, Chapel Hill, NC

Pediatric Residency (2015-2018): Duke University Medical Center, Durham, NC

Pediatric Chief Residency (2018-2019): Duke University Medical Center, Durham, NC

Pediatric Rheumatology Fellowship (2019-2022): Duke University Medical Center, Durham, NC

UNC-Duke Collaborative Clinical Pharmacology T32 Training Program (2020- 2023): University of North Carolina, Chapel Hill, NC

Master's in Clinical Research (2020-2023): University of North Carolina, Chapel Hill, NC

Clinical Research Fellowship (2020-2023): Duke Clinical Research Institute, Durham, NC

Awards/Grants

- Thrasher Research Fund Early Career Award (\$25k, 1/1/21-12/31/22)
- Duke Department of Pediatrics, Children's Miracle Network Hospitals. Trainee Award (2022-2023)
- L40AR079804, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Pediatric Extramural Loan Repayment Program. (2021-2023)
- T32HD104576 Eunice Kennedy Shriver National Institute of Child Health and Human Development UNC-Duke Collaborative Clinical Pharmacology T32 Postdoctoral Training Program. (2022-2023)
- Lupus Foundation of America Gary S. Gilkeson Career Development Award (\$140,000). Project Title: Optimizing Adherence in Pediatric Lupus Using an App-Based Medication Diary.
- Gary S Gilkeson Career Development Award, Lupus Foundation of America. (11/2022-10/2024)
- T32HD104576 Eunice Kennedy Shriver National Institute of Child Health and Human Development UNC-Duke Collaborative Clinical Pharmacology T32 Postdoctoral Training Program (7/2022 – 6/2023)

Quantitative Training

Masters of Science Clinical Research (MSCR), Gillings School of Global Public Health, University of North Carolina, Chapel Hill, NC (Graduated, May 2023)

ASHLEY STARK, MD

Training

Medical School (2014-2018): Georgetown University School of Medicine, Washington, DC

Pediatric Residency (2018-2021): Duke University Medical Center, Durham, NC

Neonatology-Perinatology Fellowship (2021-present): Duke University Medical Center, Durham, NC

Clinical Research Fellowship (2022-present): Duke Clinical Research Institute, Durham, NC

Awards/Grants

Duke Clinical Research Institute Executive Director's Pathway Research Fellows Grant (2022)

Thrasher Early Career Award (7/22-7/24)

ELIZABETH THOMPSON, MD

Training

Medical School (2012-2016): Georgetown University, Washington DC

Pediatrics Residency (2016-2019): Duke University Medical Center, Durham NC

Pediatric Cardiology Fellowship (2019-2021): Duke University Medical Center, Durham NC

Pediatric Critical Care Fellowship (2021-present): Duke University Medical Center, Durham NC

Clinical Research Fellowship (2022-present): Duke Clinical Research Institute, Durham,

Awards/Grants

NIH Loan Repayment Program (July 2022 – June 2024): \$100,000 in student loan repayment support: L40HD109869

Quantitative Training

UNC Eshelman School of Pharmacy, PhD in Pharmaceutical Sciences (anticipated graduation 2026)

Campbell MM, Benjamin DK, Jr., Mann TK, Fist A, Blakemore A, Diaz KS, Kim H, Edwards LJ, Rak Z, Brookhart MA, Moore Z, Tilson EC, Kalu I, **Boutzoukas AE**, Moorthy GS, Uthappa D, Scott Z, Weber DJ, Shane AL, Bryant KA, Zimmerman KO. Test-to-Stay After SARS-CoV-2 Exposure: A Mitigation Strategy for Optionally Masked K-12 Schools. *Pediatrics* 2022;150(5):e2022058200. PMID: 35971240

Megan McNicol M, Donegan A, Hawa K, **Boutzoukas AE**, Drobic B, Oates M, Orraca-Tetteh M, Michel HK, Maltz RM, Dotson JL, Buckingham D, Boyle B, Ardura MI. Improving Hepatitis B Vaccination Rates Among At-risk Children and Adolescents with Inflammatory Bowel Disease. *Pediatr Qual Saf* 2022;7(4):e570. PMID: 35765569

Kalu IC, Zimmerman KO, Goldman JL, Keener Mast D, Blakemore AM, Moorthy G, **Boutzoukas AE**, Campbell MM, Uthappa D, DeLaRosa J, Potts JM, Edwards LJ, Selvarangan R, Benjamin DK, Jr, Mann TK, Schuster JE. SARS-CoV-2 Screening Testing Program for Safe In-person Learning in K–12 Schools. *J Pediatric Infect Dis Soc* 2023;12(2):64-72. PMID: 36412278

Boutzoukas AE, Olson R, Sellers M, Fischer G, Hornik CD, Alibrahim O, Iheagwara K, Abulebda K, Bass AL, Irby K, Subbaswamy A, Zivick EE, Sweney J, Stormorken A, Barker EE, Lutfi R, McCrory MC, Costello JM, Ackerman KG, Munoz Pareja JC, Dean J, Abdelsamad N, Hanley DF Jr., Mould W, Lane K, Stroud M, Feger BJ, Greenberg RG, Smith P, Benjamin,DK, Hornik CP, Zimmerman KO, Becker ML. Mechanisms to Expedite Pediatric Clinical Trial Site Activation: The DOSE Trial Experience. *Contemp Clin Trials* 2022;125:107067. PMID: 36577492

Moorthy GS, **Boutzoukas AE**, Benjamin DK, Polgreen PM, Beekmann SE, Bradley JS, Dehority W. Defining Variability in Evaluation and Management of Children with Chronic Osteomyelitis. *J Pediatric Infect Dis Soc* 2023;12(4):226-229. PMID: 36688512

Boutzoukas AE, Komarow L, Chen L, Hanson B, Kanj SS, Liu Z, Mendoza SS, Ordoñez K, Wang M, Paterson DL, Evans S, Ge L, Giri A, Hill C, Baum K, Bonomo RA, Kreiswirth B, Patel R, Arias CA, Chambers HF, Fowler VG, van Duin D. International Epidemiology of Carbapenemase-Producing *Escherichia Coli*. *Clin Infect Dis* 2023. PMID: 37154071 (online ahead of print)

Harrington J, Udell JA, Jones WS, Anker SD, Bhatt DL, Petrie MC, Vedin O, Sumin M, Zwiener I, Hernandez AF, Butler J. Empagliflozin in Patients Post Myocardial Infarction Rationale and Design of the EMPACT-MI Trial. *Am Heart J* 2022;253:86-98. PMID: 35595091

Harrington J, Piccini JP, Alexander JH, Granger CB, Patel MR. Clinical Evaluation of Factor XIa Inhibitor Drugs: JACC Review Topic of the Week. *J Am Coll Cardiol* 2022;81(8):771-779. (PMID: 36813377)

Harrington J, Anker S, Butler J. Putting the Puzzle Together: SGLT2 inhibitors From Prevention to Treatment of Heart Failure. *Eur Heart J* 2022;43(41):4433-4435. PMID: 36036745

Harrington J, Mentz RJ. Ironing Out the Wrinkles: Unanswered Questions in Intravenous Iron Repletion in Heart Failure. *Eur J Heart Fail* 2023. (Online ahead of print) (PMID: 37191130)

Nelson AJ, **Harrington J**, Kolkailah AA, Pagidipati NH, McGuire DK. Sodium-Glucose Cotransporter-2 Inhibitors: Impact on Atherosclerosis and Atherosclerotic Cardiovascular Disease Events. *Heart Fail Clin*. 2022;18(4):597-607. PMID: 36216489

Harrington J, Carnicelli AP, Hua K, Wallentin L, Patel MR, Hohnloser SH, Giugliano RP, Fox KAA, Hijazi Z, Lopes RD, Pokorney SD, Hong H, Granger CB. Direct Oral Anticoagulants Versus Warfarin Across the Spectrum of Kidney Function: Patient-Level Network Meta-Analyses from COMBINE AF. *Circulation* 2023;147(23):1748-1757. PMID: 37042255

Harrington J, Fonarow GC, Khan MS, Hernandez A, Anker S, Böhm M, Greene SJ, Felker GM, Vaduganathan M, Butler J. Medication-Attributable Adverse Events in Heart Failure Trials. *JACC Heart Fail* 2023;11(4):425-436. PMID: 36881395

Harrington J, Petrie MC, Anker SD, Bhatt DL, Jones WS, Udell JA, Hernandez AF, Butler J. Evaluating the Application of Chronic Heart Failure Therapies and Developing Treatments in Individuals with Recent Myocardial Infarction: *JAMA Cardiol* 2022;7(10):1067-1075. PMID: 36044233

Aliyev N, Almani MU, Qudrat Ullah M, **Harrington J**, Fonarow GC, Butler J, Pandey A, Khan MS, Greene SJ. Neighborhood Household Income and Trends in 30-Day Readmission for Patients with Heart Failure. *JACC Heart Fail* 2023;11(1):121-123. PMID: 36357301

Benz AP, Hohnloser SH, Eikelboom JW, Carnicelli AP, Guigliano RP, Granger CB, **Harrington J**, Hijazi Z, Morrow DA, Patel MR, Seiffge DJ, Shoamanesh A, Wallentin L, Yi Q, Connolly SJ. Outcomes of Patients with Atrial Fibrillation and Ischemic Stroke While on Oral Anticoagulation. *Eur Heart J* 2023;44(20):1807-1814. PMID: 37038327

Harrington J, Nixon AB, Daubert MA, Yow E, Januzzi J, Fiuzat M, Whellan DJ, O'Connor CM, Ezekowitz J, Piña IL, Adams KF, Felker GM, Karra R. Circulating Angiokines Are Associated with Reverse Remodeling and Outcomes in Chronic Heart Failure. *J Card Fail* 2023;29(6):896-906. PMID: 36632934

Peters AE, Mentz RJ, Sun JL, **Harrington J**, Fudim M, Alhanti B, Hernandez AF, Butler J, Starling RC, Greene SJ. Patient-Reported and Clinical Outcomes Among Patients Hospitalized for Heart Failure with Reduced Versus Preserved Ejection Fraction. *J Card Fail* 2022;28(12):1652-1660. PMID: 35688408

Harrington J, Sun JL, Fonarow GC, Heitner SB, Divanji PH, Binder G, Allen LA, Alhanti B, Yancy CW, Alpert NM, Devore AD, Felker GM, Greene SJ. Clinical Profile, Health Care Costs, and Outcomes of Patients Hospitalized for Heart Failure with Severely Reduced Ejection Fraction. *J Am Heart Assoc* 2023;12(10):e028820. PMID: 37158118

Cosiano MF, Vista A, Sun JL, Alhanti B, **Harrington J**, Butler J, Starling RC, Mentz RF, Greene SJ. Comparing New York Heart Association Class and Patient-Reported Outcomes Among Patients Hospitalized for Heart Failure. *Circ Heart Fail* 2023;16(1):e0101107. PMID: 36314126

Harrington J, Jones WS, Udell JA, Hannan K, Bhatt DL, Anker SD, Petrie MC, Vedin O, Butler J, Hernandez AF. Acute Decompensated Heart Failure in the Setting of Acute Coronary Syndrome. *JACC Heart Fail* 2022;10(6):404-414. PMID: 35654525

Krychtiuk KA, Ahrens I, Drexel H, Halvorsen S, Hassager C, Huber K, Kurpas D, Niessner A, Schiele F, Semb AG, Sionis A, Claeys MJ, Barrabes J, Montero S, Sinnaeve P, Pedretti R, Catapano A. Acute LDL-C Reduction Post ACS: Strike Early and Strike Strong: from Evidence to Clinical Practice. A Clinical Consensus Statement of the Association for Acute Cardiovascular Care (ACVC), In Collaboration with the European Association of Preventive Cardiology (EAPC) and the European Society of Cardiology Working Group on Cardiovascular Pharmacotherapy. *Eur Heart J Acute Cardiovasc Care* 2022;11(12):939-949. PMID: 36574353

Jaffe AS, Mills NL, Mueller C; Study Group on Biomarkers of the ESC Association for Acute Cardiovascular Care. The Retirement of CKMB. *Eur Heart J Acute Cardiovasc Care* 2022;11(11):e1-e2. PMID: 36217252

Cardinale D, Mills NL, Mueller C; Study Group on Biomarkers of the ESC Association for Acute Cardiovascular Care. Cardiac Biomarkers in the Field of Cardio-oncology. *Eur Heart J Acute Cardiovasc Care* 2022;11(11):e1-e2. PMID: 36215174

Gangl C, **Krychtiuk K**. Digital Health-High Tech or High Touch? *Wien Med Wochenschr* 2023;173(5-6):115-124. PMID: 36602630

Krychtiuk KA, Aleksic M, Galbraith M. Patient Advocacy in #EHJACVC: Tackling Acute Cardiovascular Care Together. *Eur Heart J Acute Cardiovasc Care* 2022;11(9):669-671. PMID: 35972441

Krychtiuk KA, Rader DJ, Granger CB. RNA-Targeted Therapeutics in Cardiovascular Disease: The Time is Now. *Eur Heart J Cardiovasc Pharmacother* 2022;9(1):94-99. PMID: 36138490

Barker M, Sekhon M, **Krychtiuk KA**, van Diepen S, Alviar CL, Granger CB, Fordyce CB. Targeted Temperature Management After Out-of-Hospital Cardiac Arrest: Integrating Evidence into Real World Practice. *Can J Cardiol* 2023;39(4):385-393. PMID: 36610519

Krychtiuk KA, Granger CB. In Older Men, An Invitation for Comprehensive CV Screening Did Not Reduce Death at 5.6 y. *Ann Intern Med* 2022;175(12):JC140. PMID: 36469924

Jajcay N, Bezak B, Segev A, Matetzky S, Jankova J, Spartalis M, El Tahlawi M, Guerra F, Friebe J, Thevathasan T, Berta I, Pözl L, Nägele F, Pogran E, Cader FA, Jarakovic M, Gollmann-Tepeköylü C, Kollarova M, Petrikova K, Tica O, **Krychtiuk KA**, Tavazzi G, Skurk C, Huber K, Böhm A. Data Processing Pipeline for Cardiogenic Shock Prediction Using Machine Learning. *Front Cardiovasc Med* 2023;10:1132680. PMID: 37034352; PMCID: PMC10077147.

Price S, Kaski JC, Al-Lamee R, Boden WE, Huber K, Katz JN, **Krychtiuk K**. The Year in Cardiovascular Medicine 2022: The Top 10 Papers in Acute Cardiac Care and Ischaemic Heart Disease. *Eur Heart J* 2023;44(6):445-447. PMID: 36587938

Lenz M, Kiss A, Haider P, Salzmann M, Brekalo M, **Krychtiuk KA**, Hamza O, Huber K, Hengstenberg C, Podesser BK, Wojta J, Hohensinner PJ, Speidl WS. Short-term Toll-like Receptor 9 Inhibition Leads to Left Ventricular Wall Thinning After Myocardial Infarction. *ESC Heart Fail* 2023.10(4):2375-2385. PMID: 37190856

Lenz M, Salzmann M, Ciotu CI, Kaun C, **Krychtiuk KA**, Rehberger Likoza A, Sebestjen M, Goederle L, Rauscher S, Krivaja Z, Binder CJ, Huber K, Hengstenberg C, Podesser BK, Fischer MJM, Wojta J, Hohensinner PJ, Speidl WS. Pharmacologic Modulation of Intracellular Na⁺ Concentration with Ranolazine Impacts Inflammatory Response in Humans and Mice. *Proc Natl Acad Sci U S A* 2022;119(29):e220702119.

Lerman JB, Felker GM. Time to Diuretics in Acute Heart Failure: The Tortoise or the Hare? *Eur J Heart Fail* 2023;25(1):52-53. PMID: 36350794

Lerman JB, Newby LK. In HF with Iron Deficiency, IV Ferric Derisomaltose Was Associated with Lower Rates of HF Hospitalization or CV Death. *Ann Intern Med* 2023;176(4) JC40. PMID: 37011388

Lerman JB, Cyr DD, Chiswell K, Tobin RS, Fudim M, Pokorney SD, Mentz RJ, Samsky MD. The Use of the Multi-sensor HeartLogic™ Algorithm for Heart Failure Remote Monitoring in Patients with Left Ventricular Assist Devices. *ASAIO J* 2023;69(7):e351-e353. PMID: 37097988.

Mourad A, Thibault D, Holland TL, Yang S, Young AR, Egloff SAA, Thomas LE. Dexamethasone for Inpatients with COVID-19 in a National Cohort. *JAMA Network Open* 2023;6(4):e238516. PMID: 37067800

Rogers AJ, Wentworth D, Phillips A, Shaw-Saliba K, Dewar RL, Aggarwal NR, Babiker AG, Chang W, Dharan NJ, Davey VJ, Higgs ES, Gerry N, Ginde AA, Hayanga JWA, Highbarger H, Highbarger JL, Jain MK, Kan V, Kim K, Lallemand P, Leshnowar BG, Lutaakome JK, Matthews G, **Mourad A**, Mylonakis E, Natarajan V, Padilla ML, Pandit LM, Paredes R, Pett S, Ramachandruni S, Rehman MT, Sherman BT, Files DC, Brown SM, Matthay MA, Thompson BT, Neaton JD, Lane HC, Lundgren JD. The Association of Baseline Plasma SARS-CoV-2 Nucleocapsid Antigen Level and Outcomes in Patients Hospitalized With COVID-19. *Ann Intern Med* 2022;175(10):1401-1410. PMID: 36037469

Holland TL, Ginde AA, Paredes R, ACTIV-3 Therapeutics for Inpatients with COVID-19 (TICO) Study Group, et al. Tixagevimab–cilgavimab for Treatment of Patients Hospitalized with COVID-19: A Randomized, Double-Blind, Phase 3 Trial. *Lancet Respir Med* 2022;10(10):972-984. PMID: 35817072

Mourad A, Fowler Jr VG, Holland TL. Which Trial Do We Need? Next Generation Sequencing to Individualize Therapy in Staphylococcus Aureus Bacteremia. *Clin Microbiol Infect* 2023;29(8):955-958. PMID: 37040826

Mylonakis E, Lutaakome J, Jain MK, Rogers AJ, Moltó J, Benet S, **Mourad A**, et al. Lessons from An International Trial Evaluating Vaccination Strategies for Recovered In patients with COVID-19 (VATICO). *Med* 2022;3(8):531-537. PMID: 35963234

Peters AE, Kraus WE, Mentz RJ. New paradigms to Address Long-Term Exercise Adherence, an Achilles Heel of Lifestyle Interventions. *Circulation* 2023;147(21):1565-1567. PMID: 37216438

Peters AE, Clare RM, Chiswell K, Felker GM, Kelsey A, Mentz RJ, DeVore AD. Echocardiographic Features Beyond Ejection Fraction and Associated Outcomes in Patients with Heart Failure with Mildly Reduced and Preserved Ejection Fraction. *Circulation: Heart Fail* 2023;16(5):e010252. PMID: 37192287

Pierce JB, Ikeaba U, **Peters AE**, DeVore AD, Chiswell K, Allen LA, Albert NM, Yancy CW, Fonarow GC, Greene SJ. Quality of Care and Outcomes Among Patients Hospitalized for Heart Failure in Rural vs Urban US Hospitals: The Get with The Guidelines-Heart Failure Registry. *JAMA Cardiol* 2023;8(4):376-385. PMID: 36806447

Peters AE, Mentz RJ, Greene SJ. Advancing the Evidence for Diuretic Therapy for Heart Failure: Implications of the ADVOR and TRANSFORM-HF Trials. *Eur Heart J Cardiovasc Pharmacother* 2023;9(4):299-300. PMID: 36639123

Peters AE, Wu A, Chiswell K, Hofmann P, Nkulikiyinka R, Dinh W, Piccini JP, Mentz RJ, Fudim M. Continuous Monitoring of Heart Rate Variability and Clinical Outcomes in Patients with Implantable Cardioverter Defibrillators. *Curr Probl Cardiol* 2023;48(3):101520. PMID: 36455797

Weatherald J, Boucly A, **Peters AE**, Montani D, Prasad K, Psotka MA, Zannad F, Gombert-Maitland M, McLaughlin V, Simonneau G, Humbert M. The Evolving Landscape of Pulmonary Arterial Hypertension Clinical Trials. *Lancet* 2022;400(10366):1884-1898. PMID: 36436527

Peters AE, Tromp J, Shah SJ, Lam CSP, Lewis GD, Borlaug BA, Sharma K, Pandey A, Sweitzer NK, Kitzman DW, Mentz RJ. Phenomapping in Heart Failure with Preserved Ejection Fraction: Insights, Limitations and Future Directions. *Cardiovasc Res* 2023;118(18):3403-3415. PMID: 36448685

Peters AE, Ogunniyi MO, Hegde SM, Bianco C, Ghafghazi S, Hernandez AF, DeVore AD. A Multicenter Program for Electronic Health Record Screening for Patients with Heart Failure with Preserved Ejection Fraction: Lessons from the DELIVER-EHR Initiative. *Contemp Clin Trials* 2022;121:106924. PMID: 36100197

Peters AE, Kitzman DW, Chen H, Nelson MB, Pastva AM, Duncan PW, Reeves GR, Upadhyya B, Whellan DJ, Mentz RJ. Obesity Status and Physical Rehabilitation in Older Patients Hospitalized with Acute Heart Failure: Insights from REHAB-HF. *JACC Heart Fail* 2022;10(12):918-927. PMID: 36164731

Peters AE, DeVore AD. Pharmacologic Therapy for Heart Failure with Preserved Ejection Fraction. *Cardiol Clin* 2022;40(4):473-489. PMID: 36210132

Peters AE, Chiswell K, Hofmann P, Ambrosy A, Fudim M. Characteristics and Outcomes of Suspected Digoxin Toxicity and Immune Fab Treatment over the Past Two Decades – 2000-2020. *Am J Cardiol* 2022;183:129-136. PMID: 36089419

Randell RL, Benjamin DK, Greenberg RG. An Innovative Approach to Building an Effective and Efficient Pediatric Trial Network. *Hosp Pediatr* 2022;12(9):e309-e311. PMID: 35989348; PMCID: PMC9558054.

Randell RL, Stern SM, Van Mater H, Schanberg LE, Lieberman SM, Basiaga ML; CARRA Sjögren Workgroup; CARRA Investigators. Pediatric Rheumatologists' Perspectives on Diagnosis, Treatment, and Outcomes of Sjögren Disease in Children and Adolescents. *Pediatr Rheumatol Online J* 2022;20(1):79. PMID: 36064423; PMCID: PMC9446526.

Balevic SJ, **Randell R**, Weiner D, Beard C, Schanberg LE, Hornik CP, Cohen-Wolkowicz M, Gonzalez D, with the CARRA Registry investigators. Pharmacokinetics of Hydroxychloroquine in Paediatric Lupus: Data from a Novel, Direct-to-Family clinical Trial. *Lupus Sci Med* 2022;9(1):e000811. PMID: 36328395; PMCID: PMC9639143.

Stark A, Greenberg R. When to Perform Lumbar Puncture in Infants at Risk for Meningitis in the Neonatal Intensive Care Unit. *Neonatology Questions and Controversies: Infectious Disease, Immunology, and Pharmacology*. 2nd ed. Philadelphia: Elsevier 2022.

Campbell A, **Taylor KA**, Augustine AV, Sherwood A, Wu J, Beckham J; VA Mid-Atlantic MIRECC Registry Workgroup, Ulmer CS. Nightmares: An Independent Risk Factor for Cardiovascular Disease? *SLEEP* 2023;46(6):zsad089. PMID: 36996027

Goode AP, Cleveland RJ, Kraus VB, **Taylor KA**, George SZ, Schwartz TA, Renner J, Huebner JL, Jordan JM, Golightly YM. Biomarkers and Longitudinal Changes in Lumbar Spine Degeneration and Low Back Pain: The Johnston County Osteoarthritis Project. *Osteoarthritis Cartilage* 2023;31(6):809-818. PMID: 36804589

Taylor KA, Mysliwiec V, Kimbrel NA, Augustine AV, the VA Mid-Atlantic MIRECC Registry Workgroup, Ulmer CS. Probable Trauma Associated Sleep Disorder in Post-9/11 US Veterans. *SLEEP Adv* 2023;4(1):zpad001. PMID: 37193287

Taylor KA, Schwartz SW, Alman AC, Goode AP, Dagne, GA, Sebastião YV, Foulis PR. Nightmare Disorder and Low Back Pain in Veterans: Cross-sectional Association and Effect Over Time. *SLEEP Adv* 2022;3(1):zpac030. PMID: 36387301

Footo HP, Hornik CP, Hill KD, Rotta AT, Kumar KR, **Thompson EJ**. A Systematic Review of Clinical Study Evidence for Pulmonary Vasodilator Therapy Following Surgery with Cardiopulmonary Bypass in Children with CHD. *Cardiol Young* 2022:1-18. PMID: 35856267 (online ahead of print)

Commander SJ, Benjamin DK, Wu H, **Thompson EJ**, Lane M, Clark RH, Greenberg RG, Hornik CP. Exposure-response Relationships of Metronidazole in Infants: Integration of Electronic Health Record Data with Population Pharmacokinetic Modeling-derived Exposure Simulation. *Pediatr Infect Dis J* 2023;42(1):27-31. PMID: 36201670; PMCID: PMC9742159.

Thompson EJ, Chamberlain RC, Hill KD, Sullenger RD, Graham EM, Gbadegesin RA, Hornik CP. Association of Urine Biomarkers With Acute Kidney Injury and Fluid Overload in Infants After Cardiac Surgery: A Single Center Ancillary Cohort of the Steroids to Reduce Systemic Inflammation After Infant Heart Surgery Trial. *Crit Care Explor* 2023;5(5):e0910. PMID: 37151894; PMCID: PMC10155890.

MANUSCRIPTS AND BOOK CHAPTERS ACCEPTED FOR PUBLICATON

Uthappa DM, Pak J, McGann KA, Brookhart MA, McKinzie K, Abdelbarr M; Cockrell J, Hickerson J, Armstrong S, D'Agostino EM, Weber DJ, Kalu IC, Benjamin DK Jr., Zimmerman KO, **Boutzoukas AE**, on behalf of the ABC Science Collaborative. In-Person Instruction and Educational Outcomes of Kindergarten through 8th Grade Students during the COVID-19 Pandemic. Accepted to *Pediatrics* 2023.

Krychtiuk KA, Newby LK. High Sensitivity Troponin. Accepted to *Annual Review of Medicine*. May 2023.

Krychtiuk KA, Claeys MJ, Gencer B, Mach F. In-hospital Initiation of PCSK9 Inhibitors in ACS: Pros and Cons. Accepted to *Euro Intervention*, March 2023.

Lerman JB, Green CL, Molina MR, Maharaj V, Sen S, Flattery M, Maziarz EK, Shah KB, Martin CM, Shah P, Morris AA, DeVore AD, Cole RT. Multicenter Study of Universal Prophylaxis vs. Pre-emptive Therapy for Patients at Intermediate Risk (R+) for CMV following Heart Transplantation. Accepted to *Clinical Transplantation*, June 2023.

Brown SM, Barkauskas C, Grund B, **Mourad A**, et. al. Intravenous Aviptadil and Remdesivir for Treatment of COVID-19-Associated Hypoxaemic Respiratory Failure in the USA (TESICO): A Randomised, Placebo-Controlled Trial. *Lancet Respir Med* 2023.

Mourad A, Holland TL, Bayer AS, Fowler Jr VG. Endocarditis and Intravascular Infection. Chapter 80 in Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, Tenth Edition. 2023, Elsevier Health.

Peters AE, Solomon N, Chiswell K, Fonarow GC, Khouri M, Baylor L, Alvir J, Bruno M, Huda A, Allen LA, Sharma K, DeVore AD, and Greene SJ. Transthyretin Amyloid Cardiomyopathy Among Patients Hospitalized for Heart Failure and Performance of an Adapted Wild-Type ATTR-CM Machine Learning Model: Findings from GWTG-HF. *American Heart Journal*. In-press.

Foote HP, Wu H, Balevic S, **Thompson EJ**, Hill KD, Graham EM, Hornik CP, Kumar KR. Using Pharmacokinetic Modeling and Electronic Health Record Data to Predict Clinical and Safety Outcomes after Methylprednisolone Exposure During Cardiopulmonary Bypass in Neonates. *Congenit Heart Dis*. 2023. (In press)

ABSTRACTS PRESENTED

Boutzoukas AE, Kilpatrick, R, Benjamin, Jr., DK, Le J, Greenberg R, Wade K, Cohen-Wolkowicz M, Zimmerman KO. Pilot Study of Prolonged Post-Discontinuation Antibiotic Exposure to Ampicillin Among Low Birthweight Preterm Infants. Poster Presentation. Infectious Diseases Society of America (IDSA). October 2022, Washington, DC.

Boutzoukas AE, Komarow L, Chen L, Baum KR, Fowler WG, Hill C, Arias CA, Hanson BM, Patterson D, Ge L, Ordonez KM, Mondoza-Salcedo S, Kanj SS, Bonomo R, van Duin D. Molecular and Clinical Epidemiology of Carbapenemase-Producing E. Coli Isolates from Different Global Regions (CRACKLE-2). Poster Presentation. Infectious Diseases Society of America (IDSA). October, 2022, Washington, DC.

Moorthy GS, **Boutzoukas AE**, Benjamin DK Jr, Beekmann SE, Polgreen PM, Bradley JS, Dehority W. Defining Variability in the Evaluation and Management of Children with Chronic Osteomyelitis. Poster Presentation. Infectious Diseases Society of America (IDSA). October, 2022, Washington, DC.

Boutzoukas AE. Molecular and Clinical Epidemiology of Carbapenemase-Producing E. Coli Isolates from Different Global Regions (CRACKLE-2). Oral Presentation. 6th Annual Texas Medical Center Antimicrobial Resistance and Stewardship Conference. January 2023, Houston, TX.

Graham A, Gupta V, Pontula A, Byrd R, Haney J, Hartwig M, Snyder L. (1178) Is the Third Time the Charm? Evaluating Rehabilitation Differences in Third Lung Transplant Recipients. *The Journal of Heart and Lung Transplantation*. 2023;42(4):S505.

Graham A, Johnson C. Tacrolimus Induced Optic Neuritis in a Lung Transplant Recipient. *The Journal of Heart and Lung Transplantation* 2023;42(4):S522.

Guidot DM, Weber JM, Swaminathan AC, Todd JL, Neely ML, Palmer SM. The Impact of Acute Exacerbations of Interstitial Lung Diseases at the Time of Lung Transplantation on Post-Transplant Survival. Oral Presentation. North Carolina Thoracic Society Annual Meeting. April 2023, Charlotte, NC.

Guidot DM, Weber JM, Swaminathan AC, Todd JL, Neely ML, Palmer SM. The Impact of Acute Exacerbations of Interstitial Lung Diseases at the Time of Lung Transplantation on Post-Transplant Survival. Poster Presentation. American Thoracic Society Annual Meeting. May 2023, San Diego, CA.

Guidot DM, Weber JM, Swaminathan AC, Todd JL, Neely ML, Palmer SM. The Impact of Acute Exacerbations of Interstitial Lung Diseases at the Time of Lung Transplantation on Post-Transplant Survival. Poster Presentation, Poster Selected as Poster of Distinction. Duke Department of Medicine Research Symposium. April 2023, Durham, NC.

Harrington J, Sun JL, Felker GM, Binder G, Kociol R, Divanji P, Allen LA, Alhanti B, Yancy CW, Albert NM, Fonarow GC, DeVore AD, Greene SJ. Clinical Profile of Patients Hospitalized for Heart Failure with Severely Reduced Ejection Fraction: From the GWTG-HF Registry. Moderated Poster Session. American Heart Association Scientific Sessions. November 2022, Chicago, IL.

Harrington J, Hellkamp A, Alexander J, Mehran R, Granger CB, Goodman S, Aronson R, Windecker S, Lopes RD. Benefits of Apixaban Over Warfarin Are Preserved Independent of Warfarin Time-in-Therapeutic Range (TTR): Insights from the AUGUSTUS TRIAL. Moderated Poster Session. American Heart Association Scientific Sessions. November 2022, Chicago, IL.

Harrington J, Nguyen M, Green J, Sattar N, Pagidipati NJ, Hernandez AF, Mentz RJ, HSourij H, Holman RR, Shah S. Proteomic Markers of Cardiac Fibrosis and Endothelial Function Associate with Heart Failure in Patients with Diabetes: AN EXSCEL Biomarker Sub-Study. Moderated Poster Session. American College of Cardiology Scientific Sessions. April 2023, New Orleans, LA.

Harrington J, Sun JL, Fonarow GC, Heitner SB, Divanji PH, Alhanti B, Allen LA, Yancy CW, Albert NM, DeVore AD, Felker GM, Greene SJ. Applicability of the GALACTIC-HF Trial and Omecamtiv Mecarbil to Patients Hospitalized for Heart Failure in the United States: The Get with The Guidelines – Heart Failure Registry. Moderated Poster Session. American College of Cardiology Scientific Sessions. April 2023, New Orleans, LA.

Kilpatrick R, Thakkar P, Sutton K, Detwiler C, Henegar J, Narayan J, Perez-Romero M, Strausser C, Clark R, Zimmerman K, Goldberg R, Younge N, Tanaka D, Smith PB, Greenberg R. Risk Factors and Epidemiology of Spontaneous Intestinal Perforation Among Infants Born at 22-24 Weeks Gestational Age. Poster Presentation. Pediatric Academic Societies Meeting. April 2023, Washington, DC.

Greenberg R, Rountree W, Staat M, Schlaudecker E, Poindexter B, Trembath A, Laughton M, Poniewierski M, Spreng R, Broder K, Wodi A, Museru O, Anyalechi E, Marquez P, Aleem S, **Kilpatrick R**, Walter E. Apnea After 2-month Vaccinations in Hospitalized Preterm Infants: A Randomized Clinical Trial. Poster Presentation. Pediatric Academic Societies Meeting. April 2023, Washington, DC.

Curtis S, **Kilpatrick R**, Billimoria Z, Zimmerman K, Clark R, Greenberg R, Puia-Dumitrescu M. Dexmedetomidine Use and Association with Opioid Exposure Among Preterm Infants in United States NICUs. Poster Presentation. Pediatric Academic Societies Meeting. April 2023, Washington, DC.

Boutzoukas AE, **Kilpatrick, R**, Benjamin, Jr., DK, Le J, Greenberg R, Wade K, Cohen-Wolkowicz M, Zimmerman KO. Pilot Study of Prolonged Post-Discontinuation Antibiotic Exposure to Ampicillin Among Low Birthweight Preterm Infants. Poster Presentation. Infectious Diseases Society of America (ID Week). October 2022, Washington, DC.

Lerman JB, Patel CB, Caslinova S, Nicoara A, Holley CL, Zuckermann A, D'Alessandro D, Milano CA, Schroder JN, DeVore AD. Early Post-transplant Outcomes in LVAD Patients Undergoing Heart Transplant via Use of the SherpaPak Cardiac Transport System as Compared to Traditional Cold Storage: Insights from the GUARDIAN registry. Moderated Poster Presentation. American College of Cardiology Scientific Sessions 2023. March 2023, New Orleans, LA.

Niehaus E, **Mourad A**, Woodhouse EW, et. al. Concurrent STI Testing Among Patients Tested for MPOX at Duke University Healthcare System. Annual Conference on Retroviruses and Opportunistic Infections. February 2023, Seattle, WA.

Woodhouse EW, **Mourad A**, Niehaus E, et. al. Identifying Disparities in MPOX Vaccination in a Southeastern Academic HIV Clinical Practice. Annual Conference on Retroviruses and Opportunistic Infections. February 2023, Seattle, WA.

Peters AE, Clare RM, Chiswell K, Harrington J, Kelsey A, Hernandez AF, Felker GM, Mentz RJ, DeVore AD. Characteristics and Outcomes of Trial Eligible vs Ineligible Patients with Heart Failure with Mildly Reduced or

Preserved Ejection Fraction. Poster Presentation. American College of Cardiology Annual Scientific Sessions and Expo. March 2023, New Orleans, LA.

Peters AE, Clare RM, Chiswell K, Felker GM, Kelsey A, Mentz RJ, DeVore AD. Echocardiographic Features Beyond Ejection Fraction and Associated Outcomes in Patients with Heart Failure with Mildly Reduced or Preserved Ejection Fraction. Oral Presentation. American Heart Association Scientific Sessions 2022. November 2022, Chicago, IL.

Peters AE, Nguyen M, Green J, Pearson ER, Sourij H, Hernandez AF, Sattar N, Holman RR, Mentz RJ, Shah SH. Proteomic Pathways Across Ejection Fraction Categories in Heart Failure: An EXSCEL Substud. Poster Presentation. American Heart Association Scientific Sessions. November 2022, Chicago, IL.

Peters AE, Solomon N, Chiswell K, Fonarow GC, Khouri M, Baylor L, Alvir J, Bruno M, Huda A, Allen LA, Sharma K, DeVore AD, Greene SJ. Transthyretin Amyloid Cardiomyopathy Among Patients Hospitalized for Heart Failure and Performance of an Adapted Wild-Type ATTR-CM Machine Learning Model: Findings from GWTG-HF. Poster Presentation. American Heart Association Scientific Sessions. November 2022, Chicago, IL.

Randell RL, Schanberg LE, Beard C, Cunningham A, Amarasekara S, Phillips T, Cohen-Wolkowicz M, Hornik CP, Balevic SJ with the CARRA Registry Investigators. A Direct-to-Family Study of Medication Adherence in Pediatric Systemic Lupus Erythematosus. Poster Presentation. Duke Pediatrics Research Retreat. April 2023, Durham, NC.

Stark A, Kajencki A, Mann K, Rodriguez N, Troan I, Hill L, Benjamin D jr, Zimmerman K. School Absenteeism as a Marker for Community COVID-19 Rates. Poster Presentation. Pediatric Academic Societies Meeting. April 2023, Washington, DC.

Stark A, Lane, M, Adagarla B, Benjamin Jr, D, Zimmerman K, Kumar K. Comparative Safety of Fluconazole Loading Dose Regimen in Infants. Poster Presentation. Pediatric Academic Societies Meeting. April 2023, Washington, DC.

Lockyear C, **Stark A**, Rent S, Malcolm W, Greenberg R, Clark R, Aleem S. Medical Treatment of Gastroesophageal Reflux in the Neonatal Intensive Care Unit: Current Practice. Poster Presentation. Pediatric Academic Societies Meeting. April 2023, Washington, DC.

Yoon H, **Stark A**, Benjamin D, Greenberg R, Clark R, Laughon, M. Pharmacoepidemiology of Ganciclovir and Valganciclovir as Treatment for Congenital Cytomegalovirus in Neonates. Poster Presentation. Pediatric Academic Societies Meeting. April 2023, Washington DC.

Taylor KA, Burke C, Danyluk ST, Seebeck KR, Kingsbury CA, Lewis CE, Ulmer CS, Goode AP. Biopsychosocial Pain Characteristics by Sleep Quality in an Acute Low Back Pain Community-Based Cohort. Late-breaking Poster Presentation. American Academy of Sleep Medicine and Sleep Research Society's 2023 Annual Meeting (SLEEP 2023). June 2023, Indianapolis, IN.

Burke C, **Taylor KA**, Danyluk ST, Seebeck KR, Goode AP. Social Connection in Adults with Acute Low Back Pain and Its Influence on Pain Intensity and Physical Activity by Race: A Cross-Sectional Study. Oral and Poster Presentation. USASP Annual Meeting. April 2023, Durham, NC.

Taylor KA, Boutzoukas A, Kosinski AS, Ulmer CS, Goode AP. National Sleep Complaint Trends in Adults with Chronic Peripheral Joint Pain. Oral Presentation. APTA Combined Sections Meeting. February 2023, San Diego, CA.

Slaven E, Garreth M, **Taylor KA**. Mentoring Across Generations in Orthopaedic Manual Physical Therapy. Poster Presentation. APTA Combined Sections Meeting. February 2023, San Diego, CA.

Goode AP, Cleveland RJ, Kraus VB, George SZ, **Taylor KA**, Schwartz TA, Renner J, Huebner JL, Jordan JM, Golightly YM. Biomarkers Predict Worsening of Lumbar Spine Degeneration and Low Back Pain: The Johnston County Osteoarthritis Project. Poster Presentation. American College of Rheumatology's Convergence. November 2022, Philadelphia, PA.

Taylor KA, Schwartz SW, Alman AC, Goode AP, Dagne, GA, Sebastião YV, Foulis PR. Nightmare Disorder and Low Back Pain in Veterans: Cross-sectional Association and Effect Over Time. Poster Presentation. International Association for the Study of Pain's 2022 19th World Congress on Pain. September 2022, Toronto, ON.

Thompson EJ, Chamberlain RC, Hill KD, Sullenger RD, Graham EM, Gbadegesin RA, Hornik CP. 614: Urine Biomarkers, Acute Kidney Injury, and Fluid Overload in Infants After Pediatric Heart Surgery. *Critical Care Medicine* 2023;51(1):296.