Resident Research Day
2024
DUKE INTERNAL MEDICINE RESIDENCY PROGRAM

Friday, May 10, 2024 | 7:45 a.m. - 10:00 a.m.
Medicine Grand Rounds | 6th Floor Trent Semans Center

AGENDA

7:45am - 8am  Coffee

8am - 9am  Califf Medicine Resident Winning Abstract Presentations

“Clinical research provides the connection between scientific discoveries and helping our fellow human beings” – Robert M. Califf, MD

9am - 10am  Poster Competition
Breakfast will be served during poster session
Care Coordination for Patients Admitted with Alcohol-Associated Liver Disease: An Assessment of Appropriate Follow-up and Treatment at Time of Discharge
Isabelle Byers, MD, PGY-2
Mentor: Stephanie Garbarino, MD

Readiness for Pediatric to Adult Healthcare Transition in Young Adult Hospitalized Patients
Noah Hellerman, MD, PGY-2
Mentor: Ruchi Doshi MD MPH

Neighborhood Socioeconomic Deprivation, Healthcare Access, Characteristics of Treating Healthcare Facilities, and 30-day Mortality and Readmission for Patients Hospitalized with Common Medical Conditions
Jay Lusk, MD, PGY-1
Mentor: Bradley G. Hamill, DrPH
Endoscopic management of enterocutaneous fistulas, a systematic review. & Endoscopic management of enterocutaneous fistulas, a quaternary care center experience.
Peter Albares, MD
Mentor(s): Kara Wegermann, MD and Alyson Johnson, MD

Clinical Significance of Positive T-Cell Clonality Testing
Clare Anderson, MD
Mentor: Jie Wang MD, MS

Anticoagulation Targets in VV ECMO Patients with COVID-19 ARDS
Benjamin Berger, MD
Mentor: Elias Pratt, MD

Repeat catheter ablation for atrial fibrillation: a study of procedural techniques, recurrence mechanisms, safety, and outcomes
Mark Brahier, MD, MBA
Mentor: Jonathan P. Piccini, MD, MHS

Determinants associated with weight gain among persons with HIV who switch to integrase strand transfer inhibitors (INSTI)
Melissa Cutshaw, MD, MPH
Mentor: Nwora Lance Okeke, MD

Development of a Scoring System for the Evaluation & Comparison of Computer-Aided Detection Programs in Colonoscopy Using a Modified Delphi Approach
Sanjay Gadi, MD
Mentor: Jeremy Brown, MD, MSc

Association of sacubitril-valsartan versus valsartan with healthcare utilization following worsening heart failure in patients with EF>40%
Alexander Gunn, MD, MS
Mentor: Robert Mentz, MD

Predictors of Survival in Lung Transplant Patients Who Require Venovenous Extracorporeal Membrane Oxygenation in the Post- Transplant Period
Madeleine Hamilton, MD
Mentor: Craig Rackley, MD

Risk of Healthcare-associated Infections for Patients Supported with VV-ECMO for COVID-19 ARDS vs. ARDS from Other Causes
Jacquelyn Kercheval, MD
Mentor: Craig Rackley, MD
2023-2024 FACULTY RESIDENT RESEARCH GRANT WINNERS

Cardiovascular Disease in People Living with HIV: Disparities in Risk Factor Optimization and Outcomes
Elizabeth Kobe, MD, MHS
Mentor: Nishant Shah, MD

The Role of Artificial Intelligence in Medical Creative Writing: Comparative Analysis of Medical Poems by Physician and GPT-4
Kate Lee, MD, MS
Mentor: Anthony Galanos, MD

Effects of Sacubitril/Valsartan or Valsartan in De novo vs. Chronic HFpEF and HFmrEF: The PARAGLIDE-HF Trial
Evan Murray, MD
Mentor: Robert Mentz, MD

Cardiac MRI Predictors of Atrial Arrhythmia Ablation Outcomes in Repaired Tetralogy of Fallot
Bret Pinsker, MD
Mentor: Richard Krasuski, MD

A Systematic Review with Meta-Analysis: Botulinum Toxin Type A for Prevention of Post-Operative Atrial Fibrillation after Cardiac Surgery
Shelief Robbins-Juarez, MD
Mentor: Jonathan P. Piccini, MD, MHS

Do Adult Patients with Acute Lymphoblastic Leukemia (ALL) who Receive Asparaginase as Part of Their Chemotherapy Regimen Have Improved Five-Year Overall Survival Compared to Adults with ALL Who Do Not Receive asparaginase?
Bari Rosenberg, MD
Mentor: Thomas LeBlanc, MD, MA

Evaluation of Factors Affecting Deployment of Biologic Therapy in the Management of Inpatient Acute Severe Ulcerative Colitis at Duke Regional Hospital
Nivita Sharma, MD
Mentor: Cecelia Zhang, MD

Alcohol relapse after liver transplantation: risk factors, outcomes, and a comparison of risk stratification models
Karen Young, MD
Mentor: Stephanie Garbarino, MD
2023-2024 STEAD RESIDENT RESEARCH GRANT WINNERS

Treatment Outcomes and Clinical Characteristics of Patients with Non KRAS-G12C-Mutant NSCLC
Clare Anderson, MD
Mentor: Chenyu Lin, MD

Association of Sensor-Based Sleep Measurements with Cardiometabolic Disease and Subclinical Atherosclerosis in the Project Baseline Health Study
Krunal Amin, MD
Mentor: Nishant Shah, MD

Decongestion and Outcomes in Acute Heart Failure with Moderate-Severe Mitral or Tricuspid Regurgitation
Sarah Ashley, MD
Mentor: Stephen Green, MD

Pre-Liver Transplantation Cardiovascular (CV) Risk Stratification and Post-LT CV events
Sandra Au, MD
Mentor: Kara Wegermann, MD

Assessing Percutaneous Coronary Intervention Outcomes by Operator Career Status in the United States
Garrett Bethel, MD
Mentor: Jennifer Rymer, MD, MBA

Care Coordination for Patients Admitted with Alcohol-Associated Liver Disease: An Assessment of Appropriate Follow-up and Treatment at Time of Discharge
Isabelle Byers, MD
Mentor: Stephanie Garbarino, MD

Evaluation of etiology, management, and risk factors for mortality among patients with acute upper gastrointestinal bleeding at a tertiary care center in Northern Tanzania
Catherine Cheney, MD, MSc
Mentor: Matthew Rubach, MD

Heart failure among persons with HIV: use of guideline-directed medical therapy
Melissa Cutshaw, MD, MPH
Mentor: Lance Okeke, MD

Construction of a Duke Health-specific AI Chatbot to Answer Common GI Questions & Comparison of Performance to Conventional Large Language Models
Sanjay Gadi, MD
Mentor: Jeremy Glissen Brown, MD, MSc
Heart Failure Functional Class and Predictors of Mortality in Patients with Light-chain Cardiac Amyloidosis
Alexander Gunn, MD, MS
Mentor: Michel Kouri, MD

Food Insecurity and Post Liver Transplant Outcomes: A Retrospective Study
Ashley Jowell, MD, MS
Mentor: Andrew Muir, MD, MHS

Epstein-Barr Virus Positivity as a Prognostic Marker for Diffuse Large B Cell Lymphoma in the Modern Era
Kristen McClellan, MD
Mentor: Jie Wang, MD, MS

Review of Screening Adenoma Detection Rate in patients aged 45-49 compared to Patients Aged 50-75 with Implications on Quality Measurement
Rachel Obimah, MD
Mentor: Darin Dufault, MD

Effects of Angiotensin-Neprilysin Inhibition in Black Versus White Patients with Mildly Reduced or Preserved Ejection Fraction and Worsening Heart Failure: Insights from PARAGLIDE-HF
Cayla Pichan, MD
Mentor: Robert Mentz, MD

We Are What We Breathe: Retrospective Analysis of Environmental Exposures and Interstitial Lung Disease Outcomes
Auston Stiefer, MD
Mentor: Aparna Swaminathan, MD, MHS

Rates and Predictors of Cancer Screening Adherence in Patients with Chronic Lymphocytic Leukemia
Julian Weiss, MD
Mentor: Danielle Brander, MD
Incident Heart Failure With Preserved Ejection Fraction In A Cohort Of Patients With Biopsy-proven Non-alcoholic Fatty Liver Disease
Carolyn Ahlers, MD
Mentor: Kara Wegermann, MD

Tolerability and Outcomes of Bruton Tyrosine Kinase Inhibitors for Chronic Lymphocytic Leukemia in Patients with Severe Renal Dysfunction
Clare Anderson, MD
Mentor: Cheyu Lin, MD

Clinical Course and Outcomes in Acute Heart Failure with Moderate-Severe Mitral or Tricuspid Regurgitation
Sarah Ashley, MD
Mentor: Stephen Greene, MD

Relative location of secondary immunization determines germinal center quality and memory B cell fate
John Barber, MD
Mentor: Garnett Kelsoe, D.Sc.

Comparison of Anticoagulation Goals in Patients with COVID-19 ARDS Supported with VV-ECMO
Ben Berger, MD
Mentor: Elias H. Pratt, MD

Geographic rounding on a hospital service for adults with chronic childhood-onset disease
Samantha Collins, MD
Mentor: Ruchi Doshi, MD, MPH

Proteomic Profiling Identifies Metabolic and Extracellular Matrix Markers that Predict MACE in Individuals with Type 2 Diabetes: An EXSCEL Substudy
Kristin Corey, MD
Mentor: Svati H. Shah, MD, MHS

Assessing the Role of the Emergency Department in Executing Public Health Initiatives
Elisabeth Fassas, MD
Mentor: Daniel Gingold, MD

Assessing Criteria for the Evaluation & Comparison of AI-Based Computer-Aided Detection Programs in Colonoscopy: a Modified Delphi Approach
Sanjay Gadi, MD
Mentor: Jeremy Glissen Brown, MD, MSc
Estimating the Proportion of Heart Failure Admissions Potentially Eligible for Hospital at Home
Hubert Haywood, MD
Mentor: Stephen Greene, MD

Cost-Effectiveness of Intestinal Ultrasound as Point-of-Care Tool versus Standard Care in the Management of Crohn’s Disease
Kate Lee, MD
Mentor: Jane E Onken, MD

Real-world clinical outcomes of patients treated with Lu-177-PSMA-617 for metastatic castration-resistant prostate cancer (mCRPC): a single institution experience.
Valeria Maldonado Grijalva, MD
Mentor: Matthew Labriola, MD

Cangrelor Use in Cardiogenic Shock - Findings from the CAMEO Registry
Cayla Pichan, MD
Mentor: Jennifer A Rymer, MD, MBA, MHS

Psychiatry Resident Physicians Experience Personal and Professional Grief, Burnout and Depression: Results from a National Survey
Gregg Robbins-Welty, MD
Mentor: Anthony Galanos, MD

Trends in Female Representation in Gastroenterology
Nivita Sharma, MD
Mentor: Stephanie Garbarino, MD

Cardiac Resynchronization Therapy in Ischemic Versus Non-Ischemic Cardiomyopathy: A Patient-Level Meta-Analysis of Seven Randomized Clinical Trials
Saurabh Sudesh, MD
Mentor: Sana Al-Khatib, MD

Trends and Disparities in Hepatology Televisits at a Large Tertiary Care Center
Matthew Townsend, MD
Mentor: Andrew Muir, MD

Adoption and Outcomes of Mucosal Defect Margin Snare Tip Soft Coagulation Following Piecemeal Endoscopic Mucosal Resection
Dan Weinberg, MD
Mentor: Joshua Spaete, MD
2024 RESIDENT RESEARCH DAY POSTER SUBMISSIONS

Incidence and Characteristics of Respiratory Viral Infections after CAR T-Cell Therapy
Julian Weiss, MD
Mentor: Jonathan Huggins, MD

Alcohol Relapse after Liver Transplantation: Risk Factors, Outcomes, and a Comparison of Risk Stratification Models
Karen Young, MD
Mentor: Stephanie Garbarino, MD
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The Robert M. Califf, MD, Medicine Resident Research Award recognizes and honors Internal Medicine residents for excellence in research.

The Stead Resident Research Grants and Faculty Resident Research Grants provide funding for Internal Medicine residents to develop their skills in clinical or laboratory-based research, to carry out research projects, to present their research findings at scientific meetings, and to publish their work.

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