

## Duke Internal Medicine Residency Program



# Resident Research Day 2020

**Friday, May 22**

12:00 p.m.

**Medicine Grand Rounds**

*Virtual Session*



**Department of Medicine**

Duke University School of Medicine

# Resident Research Day 2020

## Agenda

View on your own **Virtual Poster Session**

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### 12:00-12:10 pm **Recognition of Award Recipients**

Announcement of Poster Awards

Robert M. Califf, MD, Medicine Resident Research Awards

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

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### 12:10-1:00 pm **Research Presentations**

Syed M. Qasim Hussaini, MD, MS PGY-3

Mentor: Anthony Sung, MD

*Stem Cell Transplant and Financial Toxicity: A Single Center Analysis*

Rebecca Lumsden, MD PGY-4

Mentor: Neha J. Pagidipati, MD, MPH

*Management of Postpartum Women at Duke at High Risk of CVD*

Adrian Clark-Randall, MD PGY-3

Mentors: David Halpern, MD, MPH and Kevin Shah, MD, MBA

*Reducing Imaging Utilization and Costs Through Implementation of a Peer-Comparison Dashboard in a Primary Care Network*

## ***Virtual Poster Session – List of Presenters***

**Incidence of Hospitalization for ACS or Coronary Revascularization in Patients with Type 2 Diabetes Treated with Once Weekly GLP-1 Receptor Agonist Exenatide**

Presenter: Carlos Barbery – Mentor: W. Schuyler Jones

**Comparing Acute Pulmonary Embolism Care Between Black and White Patients: Insight from a Multi-Hospital Academic Medical Center**

Presenter: Carlos Barbery – Mentor: W. Schuyler Jones

**Hard Falls from Light Chains: Amyloidosis as a Cause of Orthostatic Hypotension**

Presenter: Joanna Cavalier – Mentor: John Roberts

**The Smoking Gun: A Case of Respiratory Distress Associated with E-Cigarettes**

Presenter: Vinay Choksi

**Genetic Association of Favorable Exercise Response in Systolic Dysfunction: A HF-ACTION Genome Wide Association Study**

Presenter: Sara Coles – Mentor: Svati Shah

**Acute ST-Elevation with Constrictive Pericarditis: A Unifying Diagnosis or Two Separate Entities**

Presenter: Sara Coles – Mentor: Carmelo Milano

**Isolated Hyperprolactinemia Caused by Chest Binding in a Transgender Male**

Presenter: Hayley Cunningham – Mentor: Carly Kelley

**Risk of Hospitalization Among Older Adults with Hearing and/or Vision Impairments: Development and Internal Validation of a Prognostic Model**

Presenter: W. James Deardorff – Mentor: Heather Whitson

**Tramadol's Mystery Withdrawal: Should We Worry About SNRI Discontinuation Syndrome?**

Presenter: Lena V. Eder – Mentor: Lara Hayes

**An Unusual Presentation of Granulomatosis with Polyangiitis, a Classic Rheumatologic Syndrome**

Presenter: Lena V. Eder – Mentor: Rania Kazan

**Statin Prescriptions for Persons Living with HIV with Intermediate ASCVD Risk are Increasing, But, Why?**

Presenter: Keva Garg – Mentor: Lance Okeke

**Clinical Practice and Outcomes with Cardioversion in the NOAC-Era: Insights from ORBTI-AF II**

Presenter: Kyle Geurink – Mentor: Sean Pokorney

**Clinical and Economic Implications of Inconclusive Noninvasive Test Results in Stable Patients with Suspected Coronary Artery Disease: Insights from the PROMISE Trial**

Presenter: Akash Goyal – Mentor: Pamela Douglas

**The Role of eGFR Variability in Patients with Heart Failure and Chronic Kidney Disease**

Presenter: Aaron Hein – Mentor: Robert Mentz

**A Case of Takotsubo Cardiomyopathy Precipitated by Acute Mania**

Presenter: Nicole Helmke – Mentor: Jacob Feigal

**Dying with Debt: Analysis of Unpaid Bills and Mortality at an Academic Health Care System**

Presenter: Syed M. Qasim Hussini – Mentor: Yousuf Zafar

# ***Virtual Poster Session – List of Presenters***

**Tumor Mutational Burden (TMB) as a Predictive Biomarker of Immune Checkpoint Blockade (ICB) in Metastatic Non-Small Cell Lung Cancer**

Presenter: Chester Kao – Mentor: Tian Zhang

**Validation of Magnetic Resonance Cholangiopancreatography Risk Prediction Scores to Predict Clinical Events in Primary Sclerosing Cholangitis**

Presenter: Nicholas Koutlas – Mentor: Andrew Muir

**Quality of Capsule Endoscopy Reporting in Patients Undergoing Undergoing Double Balloon Enteroscopy**

Presenter: Joshua Lee – Mentor: Daniel Wild

**Reduction in Expected Survival Associated with Nontuberculous Mycobacterial Pulmonary Infection**

Presenter: Ahmad Mourad – Mentor: Jason Stout

**Antibiotic Prophylaxis Strategies Prior to Left Ventricular Assist Device Implantation: A Survey of Practice**

Presenter: Ahmad Mourad – Mentor: Stacey Maskarinec

**Asking the Right Questions: A Case of Infectious Proctitis**

Presenter: Cameron Oswalt – Mentor: Venu Reddy

**Expanding the Differential Diagnosis of Digit Pain: An Interesting Presentation of Metastatic Pheochromocytoma**

Presenter: Cameron Oswalt – Mentor: Laura Caputo

**Morphologic Leukemia-Free State in Acute Myeloid Leukemia is Sufficient for Successful Allogeneic Hematopoietic Stem Cell Transplant**

Presenter: Cindy Pabon – Mentor: David Rizzieri

**Tumor Lysis Syndrome Risk and Management in Patients with Rapid Transition from Ibrutinib to Venetoclax in Chronic Lymphocytic Leukemia**

Presenter: Cindy Pabon – Mentor: Danielle Brander

**Fact or Fiction: Electrocardiographic Findings Associated with Right Ventricular Dysfunction in Patients with Acute Pulmonary Embolism**

Presenter: Alex Sullivan – Mentor: W. Schuyler Jones

**Electrocardiographic Characteristics in A Large Cohort of Acute Pulmonary Embolism**

Presenter: Alex Sullivan – Mentor: W. Schuyler Jones

**Polyvascular Disease in Patients with Type 2 Diabetes Results from the Harmony Outcomes**

Presenter: Trent Wei – Mentor: W. Schuyler Jones

**What's In a Name? *Klebsiella Aerogenes* (previously *Enterobacter aerogenes*) has Poor Clinical Outcomes Relative to *Enterobacter* Species in Patients with Bacteremia**

Presenter: Austin Wesevich – Mentor: Joshua Thaden

**Outcomes of Hard to Match Liver at Duke Medical Center**

Presenter: Nadia Yimer – Mentor: Yuval Patel

# ***2020 Annual Califf Medicine Resident Research Award Abstract Submissions***

**Incidence of Hospitalization for ACS or Coronary Revascularization in Patients With Type 2 Diabetes Treated With Once Weekly GLP-1 Receptor Agonist Exenatide**

Carlos Barberly, PGY-2 – Faculty Sponsor: W. Schuyler Jones

**Comparing Acute Pulmonary Embolism Care Between Black and White Patients: Experience of a Multi-Hospital Academic Medical Center**

Carlos Barberly, PGY-2 – Faculty Sponsor: W. Schuyler Jones

**Dying with Debt: Analysis of Unpaid Bills and Mortality at an Academic Health Care System**

Syed M. Qasim Hussaini, PGY-3 – Faculty Sponsor: S. Yousuf Zafar

**Stem Cell Transplant and Financial Toxicity: A Single Center Analysis**

Syed M. Qasim Hussaini, PGY-3 – Faculty Sponsor: Anthony Sung

**Using Predictive Mortality and Cardiogenic Shock Identification Tools to Support Team-Based Treatment Intervention on Adult Cardiology Patients at Duke University Hospital**

Aman Kansal, PGY-1 – Faculty Sponsor: W. Schuyler Jones

**Quality of Capsule Endoscopy Reporting in Patients Referred for Double Balloon Enteroscopy**

Joshua Lee, PGY-3 – Faculty Sponsor: Daniel Wild

**Management of Postpartum Women at Duke at High Risk of CVD**

Rebecca Lumsden, PGY-4 – Faculty Sponsor: Neha J. Pagidipati

**Reduction in Expected Survival Associated with Nontuberculous Mycobacterial Pulmonary Disease**

Ahmad Mourad, PGY-2 – Faculty Sponsor: Jason E. Stout

**Tumor Lysis Syndrome Risk and Management in Patients with Rapid Transition from Ibrutinib to Venetoclax in Chronic Lymphocytic Leukemia (CLL)**

Cindy Pabon, PGY-2 – Faculty Sponsor: Danielle M. Brander

**Reducing Imaging Utilization and Costs Through Implementation of a Peer-Comparison Dashboard in a Primary Care Network**

Adrian Clark-Randall, PGY-3 – Faculty Sponsors: David Halpern and Kevin Shah

**Polyvascular Disease in Patients with Type 2 Diabetes Mellitus: Results from the Harmony Outcomes Trial**

Trent Wei, PGY-3 – Faculty Sponsor: W. Schuyler Jones

**Newly-named *Klebsiella aerogenes* (formerly *Enterobacter aerogenes*) is Associated with Poor Clinical Outcomes Relative to other *Enterobacter* Species in Patients with Bloodstream Infection**

Austin Wesevich, PGY-3 – Faculty Sponsor: Joshua T. Thaden

# ***2019-2020 Faculty-Resident Research Grant Recipients***

**Itching to Learn: Infusion Reactions Curriculum for Medicine Trainees**

Anastasiya Bagrova, PGY-2 – Mentor: Lisa Criscione-Schreiber

**Breaking B-Cell Tolerance to Produce Antibodies that Eradicate Leukemias and Lymphomas**

Sonali Bracken, PGY-3 – Mentor: Stefanie Sarantopoulos

**Genetic Association of Favorable Exercise Response in Systolic Heart Failure: A HF-Action Genome Wide Association Study**

Sara Coles, PGY-2 – Mentor: Svati Shah

**Examining the Effect of Interactive Prescription Refill Data Review on Medication Adherence Among Systemic Lupus Erythematosus Patients Seen in Clinic**

Lena V. Eder PGY-2 – Mentor: Kai Sun

**The Impact of Etiology of Heart Failure on the Response to a Rhythm Control Treatment Strategy in Patients with Heart Failure with Reduced Ejection Fraction and Atrial Fibrillation: Results From the Outcomes Registry for Better Informed Treatment of Atrial Fibrillation (ORBIT-AF) Registry**

Alex Grubb, PGY-2 – Mentor: Robert Mentz

**Neutrophil-Lymphocyte Ratio and F1 Assay as Predictors to Immunotherapy**

Chester Kao, PGY-2 – Mentor: Tian Zhang

**A Novel Prognostic Scoring System for PSC Using Clinical and Radiographic Data**

Nicholas Koutlas, PGY- 2 – Mentor: Andrew Muir

**The Role of Surface Immunoglobulin Isotype In Chronic Lymphocytic Leukemia Disease Biology and Clinical Outcomes in the Era of the Novel Agents**

Cindy Pabon, PGY-2 – Mentor: Brice Weinberg

**Identifying Cardio-Oncology Needs (ICON) of Cancer Patients**

Jessica Regan, PGY-3 – Mentor: Susan Dent

**Care Delivery, Eradication and Resistance in Helicobacter Pylori (*H. pylori*)**

Jonathan Reichstein, PGY-2 – Mentor: David Leiman

**Nitrate Use and Changes in Functional Status in Patients with Heart Failure**

Lonnie Sullivan, PGY-2 – Mentors: Robert Mentz

**Radiation Exposure During Percutaneous Cardiac Catheterizations**

Trent Wei, PGY-2 – Mentor: W. Schuyler Jones

**Congestion Phenotypes in Heart Failure with Preserved Ejection Fraction: Insights from the HF Network**

Nicholas Ashur, PGY-2 – Mentor: Robert Mentz

**Documentation Quality and Billing Practices for Advance Care Planning**

Callie Berkowitz, PGY-2 – Mentor: Rowena Dolor

**Patient-Centered Daily Plan**

Austin Wesevich, PGY-2 – Mentor: Thomas LeBlanc

## 2019-2020 Stead Resident Research Grant Recipients

**Disparities Between African American and Caucasian Patients Admitted for Acute Pulmonary Embolism**

Carlos Barbery, PGY-2 – Mentor: W. Schuyler Jones

**Incidence of Hospitalization for ACS or Coronary Revascularization in Patients with Type II Diabetes Treated with Once Weekly GLP-1 Receptor Agonist Exenatide**

Carlos Barbery, PGY-2 – Mentor: W. Schuyler Jones

**Impact of Baseline Hemoglobin A1c on Cardiovascular Outcomes: Observations from HARMONY**

Sean Chen, PGY-2 – Mentor: W. Schuyler Jones

**Incidence and Predictors of Major Adverse Limb Events after Peripheral Vascular Intervention**

Sean Chen, PGY-2 – Mentor: W. Schuyler Jones

**Natural History and Pathogenesis of Non-Tuberculous Mycobacterium**

Ahmad Mourad, PGY-2 – Mentor: Jason Stout

**Risks & Benefits of Treating Acute Pulmonary Embolism in Oncologic Patients with Thrombocytopenia: A Retrospective Analysis**

Cameron Oswalt, PGY-2 – Mentor: Louis Diehl

**Predictors of Abnormal EndoFLIP in Functional Esophagogastric Outflow Obstruction**

Alex Reddy, PGY-2 – Mentor: David Leiman

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## Acknowledgements

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We are grateful to the following senior Department of Medicine faculty for reviewing and scoring the 2020 Califf Research Award abstracts:

Gowthami Arepally, 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.

**The Department of Medicine is grateful to the donors who make these awards and grants possible. To learn more or make a gift, visit [medicine.duke.edu/giving](https://medicine.duke.edu/giving).**