Resident Research Day 2020

Friday, May 22
12:00 p.m.

Medicine Grand Rounds
Virtual Session
Resident Research Day 2020

Agenda

View on your own Virtual Poster Session

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

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 Polyangitis, 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 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

Polysvascular 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
Incidence of Hospitalization for ACS or Coronary Revascularization in Patients With Type 2 Diabetes Treated With Once Weekly GLP-1 Receptor Agonist Exenatide
Carlos Barbery, 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
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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-Tuberculuous 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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We are grateful to the following senior Department of Medicine faculty for reviewing and scoring the 2020 Califf Research Award abstracts:

- Gowthami Arepally, MD
- Andrew J. Muir, MD, MHS
- Sunil V. Rao, MD

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.