UNIVERSITY OF VIRGINIA
Department of Medicine

CAREY ◆ MARSHALL ◆ THORNER
Research & Scholars’ Day
2018

Wednesday, May 16, 2018
Pinn Hall Conference Center
12:00 – 5:30 p.m.
12:00 p.m.  Medicine Grand Rounds

“2017 ACC/AHA Hypertension Clinical Practice Guidelines: What’s New and Important”

Professor of Medicine
Dean, Emeritus, School of Medicine
Division of Endocrinology and Metabolism
Department of Medicine

1:00 p.m.  Break

1:15 p.m.  Oral presentations

2:30 p.m.  Break

2:45 p.m.  Oral presentations

4:00 p.m.  Poster Presentation Session (Judging to occur)

- Pinn 2ABC: Posters: 1 - 30
- Pinn Meeting Room 1: Posters: 31 - 58
- Pinn G1 & G2: Posters: 59 - 83

4:15 p.m.  A Reception will be held in Pinn Hall 1st floor concurrent with poster session.

5:30 p.m.  Awards will be held inside of the Pinn Auditorium.
Oral Presentations
(The name of the presenter is underlined)

1:15 p.m.  Predictive Models of Fever and Adverse Outcomes in Hospitalized Patients with Neutropenia
Elizabeth Gulleen, Mawulolo Ameko, Prabhat Rayapati, John Ainsworth, Laura E Barnes,
Christopher C. Moore

1:30 p.m.  Fibrocytes in Human Pulmonary Fibrosis: Double-Blind Placebo-Controlled Crossover Pilot Study of Sirolimus in IPF
Axell‐House DB, Yu V, Zhang Z, Burdick MD, Strieter RM, Mehrad B

1:45 p.m.  Failure of Fecal Microbiota Transplant for Recurrent Clostridium Difficile does not Associate with Duration of Preceding Vancomycin Therapy
Matthew T. Bender, Thomas Hunold, Brian W. Behm, Cirle Warren, Ann R. Hays

2:00 p.m.  Comparison of MELD-Na and MELD scores in Predicting Survival following Transjugular Intrahepatic Portosystemic Shunt in Patients with Cirrhosis
Carrie E Hamilton, Ross Buerlein, Jacob Meindertsma, Zachary Henry, Neeral Shah

2:15 p.m.  Pericyte-Fibroblast CD73 Cells Attenuate Inflammation and Interstitial Fibrosis in the Kidney Interstitial Microenvironment following AKI
Kinga P. Rudnicka, Heather M. Perry, Nicole Görldt, Sung-Sang J. Sung, Diane Rosin, Mark D. Okusa

2:30 p.m.  BREAK

2:45 p.m.  IgE Sensitization to the Mammalian Oligosaccharide Galactose-α-1, 3-Galactose is Associated with Increased Coronary Atheroma Volume and Plaques with Unstable Characteristics

3:00 p.m.  Cardiac CTA for Improving Cardiac Risk Stratification in Pre-Liver Transplant Evaluation
Adrián I Löffler, Jorge A Gonzalez, Roshin C Mathew, Shriram Sundararam, Caroline Flournoy,
Patrick T Norton, Klaus Hagspiel, Christopher M Kramer, Neeral L Shah, Michael Salerno

3:15 p.m.  Right Atrial Volume Index to Left Atrial Volume Index Ratio is Associated with Adverse Clinical Outcomes in Cardiogenic Shock.
Paras Patel, Mccall Walker, Kenneth Bilchick, Sula Mazimba

3:30 p.m.  Adipocyte (Pro)Renin Receptor Mediates Weight Gain, and Glucose Intolerance in a Mouse Model of Obesity
Silas A. Culver, Helmy M Siragy

3:45 p.m.  Glucagon-like Peptide-1 (GLP-1) Increases Skeletal and Cardiac Muscle Microvascular Perfusion and Improves Metabolic Insulin Action in Obese Humans
Nasui Wang, Alvin WK Tan, Linda A. Jahn, Lee Hartline, Kevin W. Aylor, Eugene J. Barrett,
Zhenqi Liu;
Poster Presentations
(The name of the primary author is underlined)

Pinn 2ABC
Posters 1 – 30
General, Geriatrics, Palliative & Hospital Medicine

1. **Colonic Zits: Strongyloides stercoralis** Diagnosed by Colonoscopy
   Bender M, Ramadorai V, Hays A.

2. **Septic Arthritis due to Oral Streptococcal Species Following Intra-articular Injection:** A Case Series and Retrospective Chart Review
   Cain S, Sifri C, Enfield K, Lewis J.

3. **Clinical yield of routine use of a molecular diagnostic panel for adult outpatients with diarrhea and validation of guideline-based clinical criteria for testing**
   Clark S, Sidlak M, Mathers A, Poulter M, Platts-Mills J.

4. **Improving Colorectal Cancer Screening Rates in an Underserved Population**
   Clarke C, Voss J, Wolf A.

5. **Medication Administration Delays in Non-ST Elevation Myocardial Infarction: Analysis of 1002 Patients Admitted to an Academic Medical Center**
   Denlinger L, Keeley E,

6. **Studying the Effects of Video Podcasts on Trainee Clinical Knowledge**
   El-Nahal W, Lyons E.

7. **Local IgE Production in Allergic and Non-Allergic Rhinitis**

8. **Antibiotic allergies in patients at high risk of neutropenic fever, an opportunity for quality Improvement?**
   Khokhar D, Straesser M, Kyin T, Borish L, Eby J, Keng M.

9. **Smoking cessation after an acute myocardial infarction**
   Mullan R, Pham M, Keeley E.

10. **Patient-Specific iPS Modeling of Titin-based Dilated Cardiomyopathy**
    Nafissi N, Hinson T, Seidman J, Seidman C.
11. Resident teaching enhances effectiveness of Medical Scientist Training Program Clinical Skills Initiative  
   Ogurick A, Baylis R, May N, Chapin A, Uthlaut B.

12. Recurrent Clostridium difficile Infection is Associated with Vitamin A Deficiency  
   Ramadorai V, Niccum B, Stein D, Hays A.

13. Unplanned Readmissions after Acute Myocardial Infarction: One-Year Trajectory Following Discharge from a Safety-Net Hospital  
   Shah I, Keeley E.

14. Mycobacterium Immunogenenum is A Rapid Grower in Peritoneal Dialysis  

15. Over-the-scope clip or Occam’s razor? An unusual case of bowel obstruction and Hydronephrosis  
   Shultz J, Schirmer B, Wang A.

16. Knowledge and Prevention of Tickborne Diseases among Hispanic and Non-Hispanic Residents of Maryland and Virginia  

17. Evaluating delays in point of care capillary glucose measurements while using an electronic glycemic management system among different intensive care units  
   Wilson M, Novicoff W, Kirby J.

Pharmacy Residents

18. Assessment of amiodarone baseline monitoring at an academic medical center  
   Burn E, Morriseette M, Dunn S.

19. Planning and implementation of inline dose checking during computerized physician order entry  
   Golding C, Anderson S, Chabot M.

20. Asparaginase-induced Antithrombin III Deficiency: Retrospective Review of Repletion and Thrombotic Events  
   Grose K

21. Evaluation of a Novel Microbiologic Rapid Diagnostic System on Antimicrobial Selection for Gram-Negative Bacillary Bloodstream Isolates  
   McCullough S, Mathers A, Brewster F, Poulter M, Elliot Z, Cox H.

22. Intravenous medication concentration standardization for patient safety  
   Zavilla C, Griggs D, Jenkins M, Saenz R.
Diabetes related multidrug-resistant tuberculosis in Bangladesh: comparison of host factors

Clostridium difficile-toxin A and B induce morphological changes and activation of Enteric Glial Cells

Development of an Alternative Spectrophotometric Assays for Urine Pharmacokinetics in Tuberculosis Endemic Settings
Ebers A, Stroup S, Heysell S.

Longitudinal Assessment of Antibiotic Resistance in E. coli Isolated from the MAL-ED Birth Cohort Study in Rural Tanzania

Cost analysis of Computerized Clinical Decision Support Tool and Incentive Plan for Clostridium difficile Testing.
Madden G, Lyman J, Enfield K, Mathers A, Poulter M, Sifri C.

Identification of etiology-specific diarrhea associated with linear growth faltering in Bangladeshi infants
Schnee A

Societal determinants of health impact Hepatitis C management and may be mitigated by providing care in a clinic with embedded wrap-around support services
Sherbuk J, McManus K, Rogawski E, Knick T, Henry Z, Dillingham R.

Early childhood cryptosporidiosis is associated with growth faltering and impaired neurocognitive development in rural and urban Bangladesh – a birth cohort study

Pinn Meeting Room 1
Posters 31 - 58

Cardiovascular Medicine

Electrocardiographic Left Atrial Abnormality in Obstructive Sleep Apnea

Diffuse myocardial fibrosis and coronary microvascular dysfunction are characteristic of HfPEF
33. Association of RV and LV Functional Parameters with Long-Term Clinical Outcomes Post-CRT  
   Mejia‐Lopez E, Kennedy J, Mazimba S, Millar M, Ruth B, Bilchick K.

34. Malignant Arrhythmias in Autoimmune Myocarditis Secondary to Immune Checkpoint Blockade Treatment  
   Mejia‐Lopez E, Dunn S, Mazimba S,

35. An Alternative for Pacing and Defibrillation in a Patient with Poor Vascular Access  
   Mejia‐Lopez E.

36. Distribution of Atrial Fibrillation Dominant Drivers in Persistent Atrial Fibrillation using Body Surface Mapping  
   Mejia‐Lopez E.

37. Four-Year Follow-Up Assessing the Impact of Integrating Delayed Computed Tomography Angiography Imaging for Left Atrial Appendage Thrombus Exclusion for Patients Undergoing AF Ablation  

38. Trends Toward Improved Myocardial Perfusion Reserve with Medical Management and Supervised Exercise in Patients with Cardiac Microvascular Dysfunction  

39. Predictors of Late Presentation of ST Elevation Myocardial Infarction: A Single Center Experience  
   McNair P, Keeley E.

40. Presentation of Spontaneous Coronary Artery Dissection and the Prevalence of Fibromuscular Dysplasia  
   McNair P, Parker A, Taylor A, Battle R, Sharma A.

41. Right Atrial to Left Atrial Volume Index Ratio is Associated with Mortality in Patients with Pulmonary Hypertension  

42. Increased Left Atrial Volume Index is Associated with Worse Outcomes in Heart Failure with Preserved Ejection Fraction: Insights from the TOPCAT Trial  

43. Direct Oral Anticoagulants Compared to Warfarin for Left Ventricular Thrombi  
   Robinson A, Ruth B, Dent J.

44. Right Atrial Pressure to Stroke Volume Ratio Predicts Mortality in the ESCAPE trial  
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<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>45.</td>
<td>Tyrosine kinase inhibitor toxicity manifesting as co-morbid Moyamoya syndrome and obstructive coronary artery disease: a case report and review of the literature</td>
<td>Zhuo D, Ragosta M, Patterson B.</td>
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<td>47.</td>
<td>CD4 T cells activated by ultrasound or vagus nerve stimulation protect kidneys from ischemia-reperfusion injury through β2 adrenergic receptor</td>
<td>Inoue T, Tanaka S, Abe C, Huang L, Rosin D, Guyenet P, Okusa M.</td>
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<td>49.</td>
<td>Review of Bloodstream Infections in Outpatient Dialysis Unit</td>
<td>Jassal V, Shah A, Bowman B.</td>
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<td>52.</td>
<td>Potentially protective effects of latent CMV during early stages of sepsis</td>
<td>Nash W, Brown M, Swaminathan S.</td>
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<td>53.</td>
<td>GSTM1 Deficiency Augments Hypertension, Oxidative Stress, and Renal Inflammation and Injury in Angiotensin II Experimental Model of Hypertension</td>
<td>Pourafshar S, Cechova S, Sung S, Ruiz P, Le Th.</td>
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<td>56.</td>
<td>Optogenetic stimulation of the vagus nerve controls inflammation in sepsis and AKI</td>
<td>Tanaka S, Rosin D, Guyenet P, Okusa M.</td>
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57. Dysregulated helper T cell responses orchestrate autoimmunity in defective DNA clearance

Allergy & Immunology

58. LTA4 Hydrolase activation and LTB4 production by Eosinophils in Asthma
Pal K, Borish L, Steinke J, Shim Y, Sun S.

Pinn Ground 1 & 2
Posters 59 - 83

Hematology/Oncology

59. The Effect of Chemotherapy on the Tumor Immune Microenvironment in Non-Small Cell Lung Cancer (NSCLC): A Single-Institution Retrospective Analysis
Devitt M, Gade K, Hall R, Horton B, Stelow E, Bullock T, Gentzler R.

60. Safety and Efficacy of Direct Oral Anticoagulants in Comparison to Low Molecular Weight Heparin in Hematological Malignancies
Arora P, Hanson L, Gade K, Hathaway L, Palkimas S, Maitland H, Portell C.

61. Improving End of Life Care in GI Oncology Patients
Hathaway L, Rose T, Sekunda M, Silvestre J, Keng M.

62. Use of Direct Oral Anticoagulants in Inherited Thrombophilia
Kim M, Arora P, Palkimas S, Talamo L, Maitland H.

63. A Pilot Study of the Combination of Entinostat with Capecitabine in Metastatic and High Risk Breast Cancer after Neo-adjuvant Therapy
Millard T, Wages N, Petroni G, Brenin C, Dillon P.

64. Acid ceramidase inhibition: A targeted therapy for acute myeloid leukemia

65. Direct oral anticoagulants (DOACs) are approved for treatment of venous thromboembolism (VTE), the prevention of VTE after surgery, and ischemic stroke prevention in patients (Pt) with non-valvular atrial fibrillation
Talamo L, Palkimas S, Bazydlo L, Man L, Maitland H.

66. Blockage of the IL-2 and IL-15 gamma chain receptor decreases leukemic cell viability in T-cell Large Granular Lymphocyte Leukemia and Adult T-cell Leukemia
An Under recognized Cause of Ascites: A Case of Malignant Peritoneal Mesothelioma
Collins H, Bollam R, Moore D, Pelletier S, Northup P, Shah N, Crawford M, Argo C.

Cleaning Up Poor Preps: Determining the Characteristics of Inadequate Bowel Preparations
Cornella S, Orton C, Horton B, Powell S.

Fighting Lengthy Cecal Intubation Times with Proning - Interim Analysis
Corning B, Davis J, Yoshida C, Doran A, Frye J, Copland A.

Practice Patterns in Application of Venous Thromboembolism Prophylaxis to a Hepatology Inpatient Service: A Quality Improvement Project
Davis J, Intagliata N.

Adverse events with percutaneous endoscopic gastrostomy in patients with amyotrophic lateral sclerosis is affected by type of sedation
Hudson P, Niccum B, Finke K, Shah N, Hays RA.

Gut Microbial Metabolites Modulate the Amplitude and Phase of PER2 and BAL1 Circadian Rhythms in Intestinal Epithelial Cells and Organoids
Luzader D, Moutinho T, Mitchell P, Papin J, Hong C, Moore S.

Spontaneous Thrombosis of Bleeding Gastric Varix: A Case Report
Reutemann B, Caldwell S, Henry Z, Intagliata N.

Clinical Characterization of Gastric Antral Vascular Ectasia: A Potential Manifestation of the Metabolic Syndrome
Smith E, Tekola B, Patrie J, Cornella S, Caldwell S.

Nonadherence to Biologic Therapies in Inflammatory Bowel Disease
Wentworth B, Buerlein R, Nakamura T, Tuskey A, Overby A, Smolkin M, Behm B.

Objective sleep characteristics in patients with pulmonary hypertension

Role of Hyperpolarized Helium-3 Magnetic Resonance Imaging in Phenotyping Lung Transplant Recipients

Pathogenicity of Human Metapneumovirus in a Medical Intensive Care Unit Population
Callahan S, Enfield K.
Pharmacokinetics of tuberculosis drugs in HIV infected patients from Irkutsk, Russian Federation: redefining drug activity

Impact of a Pharmacist-Driven Intervention on Empiric Antimicrobial Use in the Medical Intensive Care Unit
Demott SE, Martin B, Hockman R, Liszewski A, Bell T, Enfield K.

Beyond Chronic Bronchitis and Emphysema: Characterization of a Transcriptomically Unique COPD Phenotype with Hyperpolarized 129Xe MRI

Outcomes of Patients Transferred to Medical Intensive Care Units: a meta-analysis
Papé A.

Rheumatology

Management of Cardiovascular Risk Factors in Patients with Rheumatoid Arthritis: A Retrospective Chart Review
Abdelnabi M, Meinderstma J, Lewis J.


7. Harding, W., Mysore, M., Kennedy, J., Mihalek, A., Bilchick, K., Mazimba, S. Contemporary Patient Characteristics and Referral Patterns to a Pulmonary Hypertension Clinic at an Academic Medical Center. Journal of Cardiac Failure. 2017; 23(8):115.


**CLINICAL FELLOWS – ALLERGY & IMMUNOLOGY**


CLINICAL FELLOWS - CARDIOLOGY


32. **Löffler AI**, Perez MV, Mketiah EO, Bourque JM, Keeley EC. Usefulness of Achieving ≥10 METs with a Negative Stress Electrocardiogram to Screen for High-Risk Obstructive Coronary Artery Disease in Patients Referred for Coronary Angiography After Exercise Stress Testing. *Am J Cardiol*. 2018; 121:289‐293.


54. Kim SH, Burt Solorzano CM, McCartney CR. Progesterone administration does not acutely alter LH pulse secretion in the mid-follicular phase in women. [Accepted for publication in Physiological Reports, March 16, 2018]

CLINICAL FELLOWS - GASTROENTEROLOGY


CLINICAL FELLOWS – HEMATOLOGY/ONCOLOGY


CLINICAL FELLOWS – INFECTIOUS DISEASE


78. YM Alkabab, HM Al-Abdely, SK Heysell. “Diabetes-related tuberculosis in the Middle East: an urgent need for regional research” International Journal of Infectious Diseases 40, 64-70.


CLINICAL FELLOWS - NEPHROLOGY


CLINICAL FELLOWS – PULMONARY/Critical Care


POSTDOCTORAL FELLOWS – INFECTIOUS DISEASES


STUDENTS (MEDICAL AND GRADUATE)


• Gilmartin, A See Steiner K. # 97
• Wilson, R.J. See Perry H # 117