UNIVERSITY OF VIRGINIA
Department of Medicine

CAREY ♦ MARSHALL ♦ THORNER
Research & Scholars’ Day
2016

Wednesday, May 11, 2016
Jordan Hall Conference Center
12:00 – 5:30 p.m.
12:00 p.m.  Medical Grand Rounds

“The human oncogenic pathogen underlying Kaposi’s sarcoma: Its early cellular targets and molecular strategies to persist”

Dean H. Kedes, PhD, MD
Professor
Department of Microbiology, Immunology and Cancer Biology
Department of Medicine, Infectious Diseases
And International Health
Director, UVA Medical Scientist Training Program

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)

- Posters 1-34  Jordan 2ABC
- Posters 35-63  Jordan Meeting Room 1
- Posters 64-95  Jordan G 1 & 2

4:15 p.m.  A Reception will be held outside of Jordan Hall Auditorium (1st floor), during the Poster Session

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

1:15  Vasopressin use in critically ill cirrhosis patients with catecholamine-resistant septic shock: The CVICU cohort.
      Myc L, Stine J, Chakrapani R, Kadl A, Argo C

1:30  Patients Treated with Fecal Microbiota Transplantation for Recurrent Clostridium difficile Infection Report an Improvement in Their Quality of Life.

1:45  Brain Endothelial Cells take up Glucagon-like Peptide 1 (GLP-1) via GLP-1 Receptors and Protein Kinase A(PKA) signaling.
      Fu Z, Gray S, Aylor K, Barrett E, Liu Z

2:00  Trial in Progress: Sonorheometry to Predict Thrombotic Risk in Patients with Solid Tumors
      McLoughlin E, Ferrante E, Viola F, Hall R, Maitland H

2:15  Adipose Triglyceride Lipase in Macrophages Modulates Response to Pseudomonas Aeruginosa
      Desmett A, Tundup S, Jayaguru P, Kadl A

2:30  BREAK

2:45  Plasma Biomarkers of Interstitial Lung Disease in Hermansky-Pudlak Syndrome
      Fortier S, Burdick M, Mehrad B

3:00  Cost Analysis of Heart Failure Readmission Intervention Program

3:15  Assessing Influence of Community Health Workers on the Rural Patient Population in Limpopo Province, South Africa
      Aktan I, Dillingham R

3:30  Endothelial Sphingosine 1-Phosphate Receptor (s1p1) Is Necessary for Recovery from Ischemia-Reperfusion Injury (IRI) and Prevention of Fibrosis
      Perry H, Bajwa A, Ye H, Huang L, Lynch K, Okusa M

3:45  High Frequency QRS Analysis (HF-QRS) has Incremental Diagnostic Accuracy over ST-Segment Analysis Alone for the Detection of Myocardial Ischemia
Poster Presentations
(The name of the primary author is underlined)

Jordan 2ABC
Posters 1 - 34

**Cardiovascular Medicine**

1. Assessing influence of community health workers on the rural patient population in Limpopo Province, South Africa
   Aktan I, Dillingham R

2. Regulation of Post Ischemic Angiogenesis by Dual Specificity Phosphatase 5
   Ayalew D, Daneshmand A, Quatara H, Chen L, Dokun A

3. Activation Mapping of Ventricular Ectopy: Characterization of a Threshold Value Predicting Successful Catheter Ablation

4. Differences in Point of Care Testing of the Activated Clotting Time Have Significant Implications for Ablation Procedures

5. Quantitative Dynamic Contrast-Enhanced Magnetic Resonance Imaging (MRI) for the Evaluation of Calf Muscle Perfusion at Peak Exercise

6. Cardiac MR imaging parameters including T1 mapping and extracellular volume are reliable and reproducible imaging biomarkers in hypertensive heart disease.
   Gottbrecht M, Shaw P, Gonzalez J, Kramer C, Keeley E, Salerno M

7. Pulmonary Artery Pulsatilarity: Potential Prognostic Marker in Pulmonary Hypertension due to Left Heart Failure
   Holland E, Smith L, Mejia-Lopez E, Shaw P, Salerno M, Kennedy J

8. Quantitative CMR Stress Perfusion Imaging with Whole Heart Coverage Can Detect Obstructive Coronary Artery Disease.

9. Reducing Heart Failure Hospital Readmissions with Rapid Clinic Follow-up
10. The Effects of Reducing Radiation Exposure and Contrast Use in Pre-TAVR Evaluation by Computed Tomography Angiography (CTA): A Quality Improvement Project

11. Association of Systolic Blood Pressure with the Presence of Coronary Collaterals in Patients with Non-ST Elevation Myocardial Infarction
   Loguidice M, Keeley E

12. Diastolic Pulmonary Gradient and Outcomes in Group 1 Pulmonary Hypertension (Analysis of the NIH Primary Pulmonary Hypertension Registry)

13. Association of Changes in Hemodynamic Indices of Contractile Function with Clinical Outcomes during Treatment of Acute Decompensated Heart Failure


15. Physiological Signatures of Subacute, Potentially Catastrophic Illnesses in the Intensive Care Unit

   Murphy M, Bilchick K, Camnitz WM, Mealor M, Ferguson J, Mangrum M, Mahotra M, Mason P, Darby A

17. Obesity Paradox in Pulmonary Hypertension: Analysis of the NIH-Pulmonary Hypertension Registry
   Nagarajan V, Bilchick K, Kohan L, Welch T, Mihalek A, Kennedy J, Mazimba S

18. Extracellular volume by CMR is associated with biomarkers of extracellular matrix turnover and inflammation in hypertensive heart disease

19. CMR detects reduced perfusion reserve in porcine chronic ischemia model

   Zhuo D, Bilchick K, Mazimba S
21. Outcome of treatment of metastatic pheochromocytoma and paraganglioma with $^{131}$I-meta iodobenzylguanidine ($^{131}$I-MIBG)
   Alhajri F, Alshaibani A, Tuli M, Alzahrani A

22. MiR29a Regulates ADAM12 expression and Restores Post Ischemic Angiogenesis in Hyperglycemia.
   Chen L, Ayalew D, Shahid L, Wang D, Dokun A

23. Insulin uptake by the brain endothelial cell (BEC) is receptor-dependent and blunted by high-fat diet feeding
   Gray S, Aylor K, Barrett E

24. Progesterone Administration Does Not Acutely Alter LH Pulse Secretion in the Mid-Follicular Phase
   Kim S, Hutchens E, McCartney C

25. The Effect of a Robot Assisted PCI System on Procedure Times
   Kohan L, Nagarajan V, Ragosta M

26. Outcomes After PCI in Prohibitive Risk Surgical Patients
   Kohan L, Ouellette M, Kiefer N, Ragosta M

27. Demographic and lifestyle risk factors for pancreatic cancer

28. Chronic drug-induced liver injury attributable to Vedolizumab
   Wang J, Stine J, Behm B

   Patients with GAVE are at a higher risk of gastrointestinal bleeding in the absence of cirrhosis
   Wang J, Stine J, Cornella S, Argo C, Cohn S

29. Safety and efficacy of fecal microbiota transplantation in severe and complicated Clostridium difficile infections
   Wang P, Behm B, Vance S, Hays RA

30. Comparison of loop ileostomy and fecal microbiota transplantation in severe and complicated Clostridium difficile infections
   Wang P, Fashandi A, Vance S, Hays RA
32. Time to Specimen Receipt Not Associated with Increased Likelihood of Detecting *Clostridium difficile*
   Barros A, Enfield K, Sifri C

33. Direct oral anticoagulants in heparin-induced thrombocytopenia and thrombosis.
   Brown J, Kunk P, Palkimas S, Macik BG

34. Spontaneous bacterial empyema does not increase mortality in hospitalized patients in the United States
   Buerlein R, Maitre J, Argo C

35. Moral Distress in Internal Medicine Residents.
   Churchill C, Corning B, Epstein E

36. Hospitalization Secondary to Crohn’s Disease Flare, as Related to Gastroenterology Clinic Adherence: A Retrospective Chart Review
   Hall J, Campbell C, Behm B

   Hamdan A, Kirby J

38. Early palliative care reduces end-of-life ICU utilization but not ICU course in patients with advanced cancer.

39. Complications of Endoscopic Cystogastrostomy
   Kumral D, Shami VM, Wang AY

40. Long-Term Nutrient Deficiency after Roux-en-Y Gastric Bypass: Who’s Responsibility?

41. The Elusive Initial Electrocardiogram in Patients with ST-Elevation Myocardial Infarction
   Millard M, Nagarajan V, Schutt R, Keeley E

42. “Someone Needs to Call the Family... Why (or Why Not) the Resident?”
   Ombres R, Montemorano L, Becker D, Plews-Ogan M
43. **Improving Conciseness of Resident Handoffs**  
   Patrizio M, Lyons E

44. **Endoscopic Procedures in Severe Neutropenia**  
   Pitts K, Chitnavis M, Frye J, Copland A

45. **Implementation of an Inpatient Geriatric Curriculum for Internal Medicine Residents**  
   Smith A, Archbald-Pannone L, Duffy K, Hunt R, Wilkinson L

46. **Laboratory Monitoring of Rheumatoid Arthritis Patients on Chronic, Stable Methotrexate Therapy at the University of Virginia**  
   Srstka J, Carlson A

47. **An Educational Intervention to Improve Residents’ Discharge Summaries**  
   Wadlin J, Lyons E

48. **Stress testing options in stable angina: a decision analysis**  
   Workman V, Stukenborg G, Wyckoff S, Bourque J

**Hematology & Oncology**

49. **Small Cell Carcinoma of the Gallbladder: Case Report and Comprehensive Analysis of Published Cases**  
   Carrera C, Kunk P, Rahma O

50. **A prospective study of an inpatient febrile neutropenia clinical practice guideline in oncology patients.**  
   Le T, Thomas T, Reuss J, Degennaro G, Daniels E, Li J, Smolkin M, Keng M

51. **IVC agenesis: a rare cause of deep vein thrombosis**  
   Man L, Hendricks N, Maitland H

52. **Direct Oral Anticoagulants in Anti-Phospholipid Syndrome**  
   McShane M, Kunk P, Macik G, Palkimas S

53. **The effect of antifungal prophylaxis in acute leukemia and lymphoma at the University of Virginia Medical Center: A retrospective study.**  
   Naeem M, Morris A, Smolkin M, Douvas M, Volodin L, Keng M

54. **Safety and efficacy of apixaban in end stage renal disease patients maintained on dialysis.**  
   Reed D, Palkimas S, Le T, Hockman R, Maitland H, Macik G

**Infectious Disease & International Health**

Enhanced *Klebsiella pneumoniae* carbapenemase (KPC) expression from a novel Tn4401 deletion  

55. **Cheruvanky A, Stoesser N, Sheppard A, Crook D, Ramakrishnan G, Mathers A**
Covelli V, Guler J

57. Determination of Plasma Levels of Levofloxacin by High Performance Liquid Chromatography and Correlation with Multidrug-Resistant Tuberculosis Outcomes

58. CHARACTERIZATION OF HTLV-1 RESTRICTION BY APOBEC3 PROTEINS
Etta E, Bessong P, Rekosh D, Hammarskjold M

59. Evaluation of a Rapid Lateral Flow Point-of-Care Test for Detection of Cryptosporidium

60. Impact of Infectious Disease Fellow Consultative Intervention combined with Rapid Microarray Assay Technology on Outcomes for Patients with Enterococcal Blood Stream Infection
Gray M, Cox H, Poulter M, Mathers A

61. HIV-1 Rev/RRE Functional Activity Variation between Subtypes is Largely Due to Changes in Rev
Jackson P, Tebit D, Rekosh D, Hammarskjöld M

62. Distribution of virulence-related genes and pathogenesis of Diarrheagenic E. coli strains in Limpopo Province, South Africa
Ledwaba S, Bolick D, Nataro J, Guerrant R, Potgieter N

63. Hospital usage attributable to Immune Reconstitution Inflammatory Syndrome in Persons Living with HIV Before and After the 2012 Guideline Update.
Liu P, McManus KA, Dillingham R

Jordan G1 & G2
Posters 64 - 95

64. CHARACTERIZATION OF VIF SEQUENCES AND APOBEC3 GENES IN LIMPOPO PROVINCE OF SOUTH AFRICA.
Matume N, Gray L, Jackson P, Tebit D, Bessong P, Rekosh D, Hammarskjöld M

65. National Survey of United States HIV Healthcare Providers about Affordable Care Act Knowledge and Attitudes
McManus K, McManus K, Dillingham R

66. The impact of Hepatitis C virus and the role of Liver X receptor in macrophage polarization
Magoro T, Jenelle L, Bessong P, Hahn Y

67. Entamoeba pro-inflammatory MIF homolog contributes to mucosal inflammation during colitis
Moonah S, Abhyankar M, Ngobeni R, Petri W
68. IMPACT OF NOVEL ENTAMOEBA SPECIES ON DIARRHEAL INFECTIONS IN SOUTH AFRICA
Ngobeni R, Amidou S, Moonah S, Petri W, Gilchrist C

69. Outcomes and cost associated with hospital-acquired MRSA, Clostridium difficile and carbapenem-resistant Enterobacteriaceae infections in the ICU.
Schutte K, Sifri C, Enfield K

70. Reversing the effect of age on mortality from Clostridium difficile infection: role of microbiota and immune response
Shin J, Moore J, Bolick D, Kolling G, Warren C

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**Nephrology & CIIR**

71. CD73 ON FFIBROBLAS-LIKE CELLS IS A CRUCIAL MEDIATOR OF FIBROSIS AFTER KIDNEY INJURY
Görldt N, Sung S, Huang L, Lawler J, Ye H, Rosin D, Okusa M

72. Vagus nerve stimulation protects kidneys from ischemia-reperfusion injury through alpha 7 nicotinic acetylcholine receptor-expressing splenocytes
Inoue T, Abe C, Sung S, Moscalu S, Jankowski J, Huang L, Ye H, Rosin D, Guyenet P, Okusa M

73. PANX1 deletion protects from acute kidney injury in murine ischemia-reperfusion model
Jankowski J, Perry H, Huang L, Ye H, Isakson B, Ravichandran K, Okusa M

74. IMPACT OF PRONASE FLOW CROSSMATCH (pFCXM) AND DESENSITISATION ON SENSITISED KIDNEY ALLOGRAFT RECIPIENTS WITH LOW MFI DONOR SPECIFIC ANTIBODIES
Kyaw T, Ma J, Ally W, Khine S, Lobo P

75. Establishing Tunable Resistive Pulse Sensing for Characterization of Extracellular Vesicles.
Lin I, Erdbruegger U, Klibanov, S

76. ANA-Negative Renal-Limited Lupus Nephritis is Associated with Poor Renal Outcomes
Portnoy D, Knicely D, Bolton KW, Cain J, Cathro HP

77. Complement Activation in Kidney tissue and Infiltrating Immune Cells Contribute to Renal Fibrosis.

78. Acute virus-specific responses by NK cells shape CD8+ memory T cells and protective immunity
Teoh J, Gamache A, Bullock T, Brown M

79. IFN-γ FROM NATURAL KILLER CELLS REGULATE RENAL FIBROSIS AFTER ACUTE KIDNEY INJURY
Vincent I, Sung S, Huang L, Rosin D, Okusa M
80. Expression of C1q by Podocytes and Tubular cells Under Stress Signifies its Protective and Destructive Roles in Lupus Nephritis

81. HLA-DR3 Restricted Autoimmune Response to Lupus-related Auto-Antigen SmD: Polyclonal Nature of the T cell Response and the Unique Features of the T cell Epitopes.
Zhao Z, Dai C, Ren J, Kannapell C, Wang Q, Fu SM

Pulmonary & Critical Care

82. Macrophage-colony stimulating factor mediates host defense during bacterial pneumonia by promoting the survival of lung and liver mononuclear phagocytes

83. Inflammatory dendritic cell response to Aspergillus in a mouse model of chronic granulomatous disease
Cagnina E, Michels K, Bettina A, Zhang Z, Mehrad B

84. Sporadic obliterative bronchiolitis: A case series and review
Callahan S, Gomez D, Vranic A, Mehrad B

85. Identifying risk factors for the development of ventilator associated events (VAE)
Iqbal A, Enfield K, Hoke T

86. Cocaine-related pulmonary hypertension first suggested based on polysomnography findings
Mansoor S, Crandall B, Davis E

87. An Inorganic Habitat
Mansoor S, DiGuardo M, Waisberg M, LeGallo R, Stoler M, Malpass H

88. Exophiala dermatitidis airway colonization or infection in patients with Cystic Fibrosis
Mansoor S, Albon D

89. Impact of coordinated outpatient care on the outcomes of patients with COPD

90. Discovery of a novel COPD phenotype by hyperpolarized xenon129 MRI imaging biomarker
Mansoor S, Qing K, Altes T, Tustison N, Miller G, Mata J, Hersman F, Mugler J, Shim Y

91. The role of hepcidin in host defense against Gram-negative pneumonia

Pharmacy Residents

92. Susceptibility survey of ceftazidime-avibactam (C-A) against multidrug resistant (MDR) gram-negative clinical isolates from a single academic medical center
Donohue L, Cox H, Carroll J, Cheruvanky A, Mathers A
93. The effect of antithrombin supplementation on anticoagulation in adult patients receiving extracorporeal membrane oxygenation
   Morrisette M, Bidwell K, Zomp A, Dunn S, Gelvin M, Money D, Palkimas S

94. Unexpected findings with the implementation of modern smart infusion pumps
   Patel A, McCarthy MW, Weon-Lee S, Anderson S, Chabot M

95. Use of a novel deprescribing model to reduce polypharmacy and potentially inappropriate medications for older cancer patients in a geriatric oncology clinic
## PUBLICATIONS

**UVA DEPARTMENT OF MEDICINE**  
**RESIDENTS, FELLOWS, STUDENTS**  
**2015 - 2016**

### RESIDENTS


10. Sula Mazimba; Jamie L.W. Kennedy, **David X Zhuo**, James Bergin, Mohammad Abuannadi, Jose Tallaj, Kenneth C Bilchick. Decreased Pulmonary Artery Proportional Pulse Pressure after Pulmonary Artery Catheter Optimization for Advanced Heart failure is Associated with Adverse Clinical Outcomes. *Journal of Cardiac Failure* 2016 (in press).

### CLINICAL FELLOWS – ALLERGY/IMMUNOLOGY


CLINICAL FELLOWS – CARDIOLOGY


• Mealor A, Gonzalez J. See Zhuo # 10
41. Sharma, P, Nagarajan, V. “Five things to know about... heart failure with preserved ejection fraction”. CMAJ. 2015 Apr 21; 187(7):510-1.


CLINICAL FELLOWS – ENDOCRINOLOGY


51. Syed Quadri, Caixia Li, Silas A. Culver, Helmy M. Siragy. Renin Angiotensin System and COX in Regulating Renal Function and Diseases. Review manuscript accepted for publication in Frontiers in Bioscience.

CLINICAL FELLOWS – GASTROENTEROLOGY


**Tebit. See Pierson #7**

**CLINICAL FELLOWS-INFECTIOUS DISEASES**


POSTDOCTORAL FELLOWS - CARDIOLOGY


94. Shaw PW, Kramer CM; The case for CMR. J Nucl Cardiol. 2015 Oct;22(5)968-70 PMID: 26153261


• Shaw PW. See Gonzalez #23
• Shaw PW. See Gonzalez, Balfour, Shaw #24

POSTDOCTORAL FELLOWS – ENDOCRINOLOGY


POSTDOCTORAL FELLOWS – HEMATOLOGY/ONCOLOGY


POSTDOCTORAL FELLOWS – INFECTION DISEASES


POSTDOCTORAL FELLOWS – NEPHROLOGY


113. Fu SM, Dai C, Zhao Z, Gaskin F. Anti-dsDNA Antibodies are one of the many autoantibodies in systemic lupus erythematosus. F1000Res. 2015 Oct 1;4(F1000 Faculty Rev):939

STUDENTS (MEDICAL AND GRADUATE)


