UNIVERSITY OF VIRGINIA
Department of Medicine

CAREY◆MARSHALL◆THORNER
Research & Scholars’ Day
2017

Wednesday, May 10, 2017
Pinn Hall Conference Center
12:00 – 5:30 p.m.
12:00 p.m.  Medicine Grand Rounds

“Global Health in the 21st Century: Advances and Challenges in Parasitic Diseases”

Richard D. Pearson, MD
Professor Emeritus
Department of Medicine, Infectious Diseases
And International Health
University of Virginia

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

4:15 p.m.  A Reception will be held outside of Pinn Hall Auditorium (1st floor), during the 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.  Agreement between Endoscopic and Histologic Diagnoses of Colorectal Polyps in an Academic Institution

1:30 p.m.  The Role of Hepcidin in Modulating Renal Fibrosis
Mandziak E, Scindia Y, Ledesma J, Mohammad S, Swaminathan S

1:45 p.m.  Continuous Monitoring of Cardiorespiratory Dynamics Detects Clinical Deterioration in Acute Care Patients
Moss T, Clark M, Calland J, Enfield K, Lake D, Moorman R

2:00 p.m.  In-Hospital Outcomes of Patients Managed as Outpatients with U-500 Regular Insulin
Panvelker S, Kirby J.

2:15 p.m.  Long-Term Outcomes and Associated Risk Factors of Post-Hospitalization Dialysis-Dependent Acute Kidney Injury Patients
Rathore A, Chopra T, Ma J, Xin W, Abdel-Rahman E

2:30 p.m.  BREAK

2:45 p.m.  Characterization of Beneficial Components in the Fecal Microbiota of Young Mice which Improve Mortality and Enhance Innate Immune Response in Aged Mice with Clostridium Difficile Infection

3:00 p.m.  Direct Oral Anticoagulants in Patients with Cirrhosis Appear Safe and Effective
Collins H, Kunk P, Palkimas S, Intagliata N, Maitland H

3:15 p.m.  Impact of Plasma Volume Relative to Renal Function on Six-Month Survival After Hospitalization for Acute Decompensated Heart Failure

3:30 p.m.  Analysis of a New Best-Practice Alert on Time to Initiation of Antibiotics in Surgical ICU Patients with Septic Shock
Chanas T, Volles D, Sawyer R, Lyman J, Robertson M, Kimpel K, Mallow-Corbett S

3:45 p.m.  Pulmonary-Systemic Pulse Pressure Ratio is Associated with Adverse Clinical Outcomes in Group 1 Pulmonary Hypertension
Poster Presentations
(The name of the primary author is underlined)

Pinn 2ABC
Posters 1 – 30

Pharmacy Residents
1. Fosfomycin In Vitro Susceptibility Assessment of Whole Genome Sequenced Multispecies KPC-producing Clinical Isolates
   Elliot ZS, Stoesser N, Cox H, Carroll J, Barry K, Sheppard A, Crook D, Mathers A

2. Implementation of a urine hydration and alkalinization algorithm to improve outcomes in adult patients receiving high-dose methotrexate

Allergy & Immunology
   Smith A, Shirley D, Kellams A, Zeichner S, Wisniewski J

4. Characteristics of biomarkers which may predict clinical response to omalizumab in chronic urticaria: a retrospective analysis
   Strasser M, Palacios-Kibler T, Borish L, Lawrence M

5. Experimental rhinovirus infection reveals an amplified Th1 response in allergic asthmatics

Cardiovascular Medicine
6. Incremental Diagnostic Accuracy of High Frequency QRS Analysis over ST-Segment Analysis Alone for Detection of Myocardial Ischemia: Multi-Center Prospective
   Balfour P, Beller G, Bourque J

7. Pulmonary Artery Pulsatility Index Predicts Poor Outcomes in Patients with Advanced Heart Failure.
   Black G, Mazimba S, Chishinga N, Bilchick K

8. Obstructive Sleep Apnea and Electrocardiographic Repolarization Abnormality

9. Long Term Health Related Quality of Life in Patients Treated with Targeted Temperature Management After Out-of-Hospital Cardiac Arrest
10. Changes in Renal Perfusion Pressure During Hemodynamically Guided Therapy is Associated With the Development of Cardio Renal Syndrome
   Mejia-Lopez E

11. Automated QRS morphology assessment for pace-mapping of PVCs


13. Arrhythmias Following Hybrid Epicardial (Surgical) and Endocardial Radiofrequency-cy Ablation for Atrial Fibrillation: Mechanisms and Outcomes with Ablation
    Murphy M, Downs E, Malhotra R, Bilchick K, Mangrum M, Ferguson J, Mason P, Ailawadi G, Darby A

14. Subcutaneous Implantable Cardioverter Defibrillator Implantation using a Serratus Plane Nerve Block
    Murphy M, Manson W, Shilling A, Mason P

15. Association of Hospital Costs for Pulmonary Hypertension Care with World Health Organization Group Classification
    Mysore M, Bilchick K, Harding W, Kennedy J, Mihalek A, Smith L, Mazimba S

16. Impact of Temporary Mechanical Circulatory Support Prior to Durable Left Ventricular Assist Device Implantation on Hospital Costs and Survival

17. Stress Cardiomyopathy in a Patient with Anorexia Nervosa
    Rrapo Kaso E

18. Slow Wave Sleep in Patients with Atrial Fibrillation
    Shields M, Stout C, Shah N & Kwon Y

19. Predicting Right Ventricular Failure in Patients Undergoing Continuous-Flow Left Ventricular Assist Device Implantation with Multiple Predictive Models

20. Comparing Costs and Readmissions Associated with Gastrointestinal Bleeding in Patients with Left Ventricular Assist Devices and Cardiac Mechanical Valves
    Wynter J, Bilchick K, Scully K, Ballew C, Mazimba S

21. MAGGIC and STS Risk Scores are Equivalent Predictors of Mortality Following Valvular Heart Surgery.
    Zhuo D, Bilchick K, Johnston L, Kim M, Mazimba S
22. Bone marrow stromal cell antigen-1 identified by RNA-seq and ChIP-seq is important for inducing renal ischemia-reperfusion injury and fibrosis.  
    Inoue T, Huang L, Rosin D, Okusa M

23. Role of TIMP-2, IGFBP7 and miRNAs in predicting Renal Outcome in AKI patients who are dialysis dependent on Hospital Discharge.  
    Khan M, Gautam J, Abdel-Rahman E

24. Role of DJ-1(PARK7) in Hepcidin-mediated protection of Acute Kidney Injury in a Murine Model of Sepsis(LPS)  
    Leeds J, Scindia Y, Mandziak E, Loi V, Ledesma J, Swaminathan S

25. A Single Center Retrospective Review of Incident Catheter Rates in an Academic Outpatient Dialysis Unit  
    Loman E, Kyaw T, Bowman B

26. 30 day readmissions in End Stage Renal Disease – A Comprehensive Single Center Review of Etiologies  
    Mamdouhi P, Muncaster L, Bowman B

27. In-Hospital Mortality after Acute Kidney Injury (AKI); Effect of Race  
    Owoyemi I, Abdel-Rahman E, Xin W, Ma J, Scully K, Balogun R

28. Progression of Chronic Kidney Disease (CKD) After Initial Acute Kidney Injury (AKI); Effect of Race  
    Owoyemi I, Abdel-Rahman E, Xin W, Ma J, Scully K, Balogun.

29. A Novel Hybrid Cytokine IL233 Promotes Regeneration Following Kidney Injury  
    Sabapathy V, Cheru NT, Mohammad S, Sharma R

30. Increased C5aR1 expression on macrophages during tubulo-interstitial fibrosis.  
    Sahu R, Xavier S, Landes S, Portilla D

Pinn Meeting Room 1  
Posters 31 - 58

Gastroenterology

31. Recurrent vomiting complicated with spontaneous Pneumomediastinum in absence of respiratory symptoms - a case report  
    AlMuhaidb A, Frye J

32. Differences in Patient Expectations and Gastroenterology Practices in Osteoporosis Screening in Inflammatory Bowel Disease.  
    Chitnavis M, Ellis J, Tuskey A, Behm B
33. Narcotic Use and Misuse Are Significantly Increased in Ulcerative Colitis Patients with Functional Gastrointestinal Disorders.  
   Chitnavis M, Mock J, Crocker J, Northup P, Tuskey A, Behm B

34. A Potential Treatment for Metformin Related Diarrhea  
   Love K, McCall A

35. Comparative management of bleeding gastric varices at a tertiary care center  
   Stein D, Salinas C, Sabri S, Henry Z, Onyeali R, Caldwell S

36. The weighted effect of non-alcoholic steatohepatitis on hepatocellular carcinoma risk: A meta-analysis.  

37. Adherence to biologic therapies in inflammatory bowel disease.  
   Wentworth B, Overby A, Behm B

38. A Novel Decision Aid to Encourage Smoking Cessation Among Patients with Low Health Literacy.  
   Agarwal S, Kerwin M, Meindertsma J, Wolf A

39. Clostridium Difficile Infection in Acute Myeloid Leukemia Patients  
   Bal A, Morris A, Naeem M, Thomas T, Keng, M

40. Bacteremia with Ignatzschineria larvae secondary to maggot infested leg wound: A case report and literature review of Ignatzschineria spp.  
   Baldwin C, Wang J

41. Rupture of a Pancreaticoduodenal Artery Aneurysm in the Setting of Median Arcuate Ligament Compression: A Rare Presentation of a Common Anatomical Variant  
   Blakeney A

42. How we diagnose ANCA-associated vasculitis: A review of an academic medical center’s practice.  
   Hedrick J, Carlson A.

43. Utility of Bronchoscopy in Patients with Acute Leukemia and Neutropenic Fever  
   Hughes E, Douvas M

44. Is This Patient Sick? Physician Assessment Versus Early Warning Scores in Predicting Patient Decompensation  
   Kruse D, Voss J
45. Safety and Efficacy of Thrombopoietin Mimetics for Refractory Immune Thrombocytopenic Purpura in Patients with Systemic Lupus Erythematosus: A Case Series from a Single Academic Center
   Carlson A, Lusa A

46. Fact is fact: a potentially lethal complication of a controversial syndrome.
   Mehra P, Wispelwey B

47. The effect of the Nia Technique on quality of life among participants with treated breast cancer.
   Mehra P, Fanous I, Dillon P

48. Analysis of the frequency of palliative care referral for symptom control during autologous stem cell transplant for multiple myeloma
   Mehra P, Kindwall-Keller T

49. The Application of a Diabetes Self-Monitoring Tool in an Outpatient Clinic Setting
   Mora N, Helenius I

50. Criteria Used to Determine the Apnea-Hypopnea Index
   Pawlikowski Z

51. Customizing EMR Registry Reporting: Using Disease Management Registry Data to Improve Common ACO Diabetes Metrics
   Voss J, Clay W, Thaggard D, Helenius I, Schlag K

52. Rates of nutritional counseling among obese Hispanic and non-Hispanic patients in an academic outpatient clinic
   Todd B, Chun B, Saint-Surin T, Borecky K, Wolf A

53. Model for End-Stage Liver Disease Sodium score is not predictive of health-related quality of life in liver transplantation candidates

54. Role of Apoptotic Cell Removal by Alveolar Epithelial Cells During Lung Development
   Desmett A, Jayaguru P, Tundup S, Kadl A

55. Modulation of Lung Inflammation Ameliorates Influenza-Induced Mortality, Morbidity, and Lung Injury
   Desmett A, Tundup S, Jayaguru P, Raje V, Harris T, Kadl A

56. Use Of Immune Checkpoint Inhibitors Induces An Immune Mediated Hypophysitis
   Mansoor S, Hall R, Mihalek A
57. Impact of coordinated outpatient care on the outcomes of patients with COPD  

58. LTA4 Hydrolase activation and LTB4 production by Eosinophils in Aspirin Exacerbated Respiratory Disease (AERD)  
   Pal K, Borish L, Steinke J

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**Pinn Ground 1 & 2**  
Posters 59 - 83

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### Endocrinology & Metabolism

59. Micro particles are linked to post-prandial hyperglycemia and cardiovascular disease risk in adults with prediabetes  
   Eichner N, Gilbertson N, Rudy C, Barrett E, Weltman A, Erdbrügger U, Malin S

60. Glucagon-like peptide 1 (GLP-1) crosses the blood-brain barrier via endothelial GLP-1 receptor-mediated process  
   Fu Z, Aylor K, liu Z

61. Short-term interval training increases fat utilization during exercise in adults with prediabetes  
   Gaitan J, Eichner N, Moxey J, Gilbertson N, Barrett E, Weltman A

62. Two Weeks of Interval Training Improves Metabolic Flexibility and Glucose Tolerance in People with Prediabetes  
   NM Gilbertson, NZM Eichner, JR Moxey, JM Gaitan, Z Liu, EJ Barrett, A Weltman and SK Malin

63. Effect of Interval vs. Continuous Exercise Training on Acylated Ghrelin and Appetite in Adults with Prediabetes.  
   Heistone E, Eichner N, Gilbertson N, Liu Z, Barrett E, Weltman A, Malin S

64. In Adolescent Girls with Hyperandrogenism and Overweight, Short-Term Metformin Improves Hyperandrogenemia but Does Not Alter Hypothalamic Sensitivity to Progesterone Negative Feedback  

65. Role of adipose tissue lipolysis in regulating glucose homeostasis during acute stress  
   Raje V, Harris T

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### Hematology/Oncology

66. Implementation of Reflexive Genomic Profiling in Non-Squamous NSCLC: Results of Single Center Experience  
Devitt M, Gentzler R, Hall R

68. A multidisciplinary effort to decrease time from admission to chemotherapy on an inpatient oncology unit
Man L, Sen J, Cahan J, DeGregory K, Thomas T, Daniels E, McLoughlin E, Huntsinger L, Keng M

69. Major Bleeding with Ibrutinib: More Than Expected

70. Reducing invasive fungal infections in patients with acute myeloid leukemia receiving induction and re-induction chemotherapy at the University of Virginia Health System

71. Clinical outcomes in febrile neutropenia following institution of an inpatient clinical practice guideline
Reuss J, Le T, Thomas T, Degennaro, Daniels E, Li J, Smolkin M, Keng M

72. Safety of Direct Oral Anticoagulants in Patients of Extreme Weight
Talamo L, Palkimas S, White D, Maitland H

73. Correlations between immune cell infiltration and survival in cholangiocarcinoma

74. Early interventions for diabetes related tuberculosis associate with hastened sputum microbiological clearance in Virginia, USA
Alkabab Y, Keller S, Dodge D, Houpt E, Staley D, Heysell S

75. Accuracy of Cefepime (FEP) Susceptibility Testing of Ceftriaxone Non-Susceptible Enterobacteriaceae (CNSE) by Three Methods
Cheruvanky A, Carroll J, Barry K, Hoffman P, Cox H, Mathers A

76. Metabolomics methodology for the in vitro study of Plasmodium falciparum
Covelli V, Carey M, Guler J

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

78. Longitudinal Assessment of Antibiotic Resistance in E. coli Isolated from the MAL-ED Birth Cohort Study in Rural Tanzania
Fleece M, Wolango T, Nshima, Gratz J, Platts-Mills J, Mduma E, Houpt E
79. **Infective Endocarditis due to Injection Drug Use Disorder: Managing the Morbidity while overlooking the Disease**  
   Gray M, Rogawski E, Scheld W, Dillingham R

80. **Predictive models of fever and mortality in hospitalized patients with neutropenia**  
   Gulleen E, Ameko M, Rayapati P, Ainsworth J, Barnes L, Moore C

81. **Interactions of Diarrheagenic E. coli co-infections in a murine model**  
   Ledwaba S, Bolick D, Santiago A, Nataro J, Potgieter N, Guerrant R

82. **A murine model of diarrhea and growth impairment with Shigella flexneri infection and the role of zinc deficiency**  
   Medeiros P, Ledwaba S, Bolick D, Oriá R, Lima A, Guerrant R

83. **Association between pathogen-specific diarrhea and linear growth in Bangladeshi infants**  
   Schnee A, Petri W, Platts-Mills J
PUBLICATIONS
UVA DEPARTMENT OF MEDICINE
RESIDENTS, FELLOWS, STUDENTS
2016-2017

RESIDENTS


• Havard, R. See Gade # 3

• McShane, M. See Brown #1

CLINICAL FELLOWS – ALLERGY/IMMUNOLOGY


19. Steinke JW, Smith AR, Carpenter, DJ, Patrie, J, Payne, S. Lack of Efficacy of Symptoms and Medical History in Distinguishing Eosinophilic From Non-Eosinophilic Nasal Polyps. (Submitted, awaiting review)


CLINICAL FELLOWS – CARDIOLOGY


30. Holland EM, Moss TJ. Acute Noncardiovascular Illness in the Cardiac Intensive Care Unit. *J Am Col Cardiol.* [In Press]


- Moss TJ See Holland #5

**CLINICAL FELLOWS – ENDOCRINOLOGY**


**CLINICAL FELLOWS – GASTROENTEROLOGY**


38. Geier C, Davis J and Siegel M. Severe Human Monocytic Ehrlichiosis Presents with Altered Mental Status and Seizures. *BMJ Case Rep* 2016; doi:10.1136/bcr-2016-215967


46. Tekola, B., Smith, E., Mann, J., Patrie, J., Moskaluk, C., & Caldwell, S. Antral mucosal perfusion is not increased in GAVE. Postgraduate Medicine, (just-accepted).


• Kunk P. See Brown #1
• Kunk P. See Collins # 2
• Kunk P. See Reuss # 13
• Romano A. See Gade #3

CLINICAL FELLOWS - INFECTIOUS DISEASES


CLINICAL FELLOWS – PULMONARY/CRITICAL CARE


• Lyles G. See Ebers #75

POSTDOCTORAL FELLOWS – CARDIOLOGY


POSTDOCTORAL FELLOWS – ENDOCRINOLOGY


POSTDOCTORAL FELLOWS – INFECTIOUS DISEASES


POSTDOCTORAL FELLOWS – NEPHROLOGY


STUDENTS (MEDICAL AND GRADUATE)


158. Miao Lu; Jianhui Zhou; Caitlin Naylor; Beth D Kirkpatrick; Rashidul Haque; William A Petri; Jennie Z Ma. Application of Penalized Regression Methods to Biomarker Selection. Biomarker Research 5:9 2017. DOI: 10.1186/s40364-017-0089-4


- **Hoffman CL** See Gonyar #110
- **Moreau GB** See Clark # 104
- **Nona M. Jiang** See Ngobeni #116
- **Nielsen G.** See Gade #3