6th Annual VCUHS Resident Research Day  
Thursday June 4, 2009

Presentations

**Basic Science**
- Scarless fetal mouse wound healing may initiate apoptosis through caspase 7 and cleavage of PARP  
  Richard Carter, MD
- The Role of the Coronoid Process, Lateral Collateral Ligament and Radial Head in Varus Stability of the Elbow  
  Stephen Fern, MD
- Estradiol Stimulates Rapid Production and Export of Sphingosine-1-Phosphate from Breast Cancer Cells via ATP-Binding Cassette Transporters  
  Roger Kim, MD
- Exendin-4 up-regulates the expression of Hypoxia-inducible factor-1α & improves the outcome after transplantation of macro-encapsulated rat islets to athymic mice.  
  Amit Sharma, MD
- Increased skin carcinogenesis in caspase-activated Dnase knockout mice  
  Bin Yan, MD
- A Biomechanical Comparison of Locking Versus Non-Locking Plating Systems in Osteoporotic Intra-articular Calcaneal Fractures  
  Matthew Blake, MD
- Prevention of Left Ventricular Systolic Dysfunction Induced by Exogenous Interleukin-1β with Atorvastatin: A Model of Septic Cardiomyopathy  
  Roshanak Robati, MD

**Clinical Science**
- Prospective Observational Study of Ineffective Triggering over the Course of Mechanical Ventilation  
  Jessica Boehmler, MD
- The Successful Importation of Collaborative Problem Solving to Reduce Seclusion and Restraints In An Inpatient Child Psychiatric Facility  
  Ehsan HabibPour, MD
- What is the rate of occurrence of new fractures at levels adjacent to index fractures in osteoporotic nonagenarians after percutaneous vertebroplasty?  
  Evan Queler, MD
- Etiology of Granulomatous Inflammation on Bone Marrow Biopsies  
  Saud Rahman, MD
- The Impact of Pre-Hospital Activation of the Cardiac Catheterization Team on Time to Treatment for Patients Presenting with ST-Segment-Elevation Myocardial Infarction  
  Teresa Camp-Rogers, MD
- Results of a Minimally Invasive Surgical Pulmonary Vein Isolation and Ganglionic Plexi Ablation for Atrial Fibrillation: Single Center Experience with 12-Month Follow-up  
  Frederick Han, MD

**Basic & Clinical Science**
- Treatment of Eosinophilic Esophagitis with Inhaled Budesonide  
  Leon Kao, MD
- NHSN Methodology Overestimates Central Line-Associated Bloodstream Infection Rates  
  Michelle Nalepa, MD
- Interruption of DNA damage checkpoint by a Chk1/Wee1 kinase inhibitor that interacts with bortezomib to induce apoptosis in human multiple myeloma cells  
  Brian Lingerfelt, MD
- The Effect of Medializing Calcaneal Osteotomy with and without Inferior Translation upon Foot Pressures and Joint Angles Indicative of Adult Acquired Flatfoot Deformity.  
  Benjamin MacQueen, MD
- Ectopic expression of Spp24 represses BMP signaling and Runx2 gene expression, but ultimately leads to osteoblastogenesis in vitro  
  Andrew Moritz, MD
- Prevalence of Amputation after Spinal Cord Injury: A Retrospective Review  
  Ajit Pai, MD

**Posters**
1. Bone Anchored Hearing Aids: Operative & Post-Operative Complications  
   Cristina Baldassari, MD
2. Influence of Serum from Patients with Chronic Urticaria and Systemic Lupus Erythematosus on Mast Cell Activation in the Presence and Absence of Omalizumab  
   Robert Behnke, MD
3. MDA7/IL24 Plus Radiation Enhance Survival in Animals with Intracranial Primary Human GBM Tumors  
   Shekhu Brar, MD
4. Sex Hormone-Mediated Regulation of Blood Pressure Control  
   Shilpa Carlson, DO
5. Autonomic Dysreflexia resulting from Artificial Urinary Sphincter: A case report  
   Christopher Dawson, MD
6. Detection and treatment of osteoporosis in patients with fragility hip fractures at VCU- how are we doing?  
   Fred Dery, MD
7. Comparison of Rehabilitation Outcomes in Individuals with Central Cord Syndrome and Brown-Sequard Syndrome

Anthony DiNicola, MD

8. Mechanisms of L-arginine induced protection during hemorrhagic shock

Charity Dixon, MD

9. The Novel CDK inhibitor SCH727965 Interacts with the BCL-2 Antagonist HA14-1 to Induce Apoptosis in Human Multiple Myeloma Cells by Targeting Multiple Arms of the Anti-apoptotic Machinery 1st Place

Mandy Garnett, DO

10. Correlating a Genetic Background within the Interleukin-1 Family of Genes on Cardiac Remodeling Following Acute ST-segment Elevation Myocardial Infarction

Chris Gelwix, MD


Rabih Halabi, MD

12. A Community Needs Assessment as it Pertains to Drinking Water in El Yoro Honduras, June 2008

Reena Hemrajani, MD

13. Association of Clostridium Difficile rates and Antibiotic Prescribing Patterns of Different Units at VCU

Daniel Katz, MD

14. Robotic Nissen fundoplication with gastrostomy preservation in neurologically impaired children

Franklin Margaron, MD

15. Are we ready to lose the white coat for the sake of infection control? A survey of physicians

J. Daniel Markley, MD

16. Post-Malaria Neurological Syndrome: A Case Report and Review of the Literature

J. Daniel Markley, MD

17. The Role of Clot Sections in Bone Marrow Lymphoma Staging

Patrick MacDonough, MD

18. The Effect of Contact Precautions on Wait Time from Emergency Room Disposition to Inpatient Admission

Aaron McLemore, MD


Amie Miklavcic, MD

20. What is the appropriate screening interval for repeat DXA in men with osteopenia?

Pallavi Munagala, MD

21. Use of acellular dermal regeneration template in a complex abdominal wall defect from necrotizing fasciitis

Karen Powers, MD

22. Safety & Efficacy of Viscosupplementation for the Treatment of Symptomatic Lumbar Facet Joint Arthropathy: A 12 Month Prospective Cohort Pilot Study

Evan Queler, MD

23. Factor analysis of subspecialty choice characterizes rheumatology fellows as intellectually interested and driven by 4 strong latent factors.

Laila Rahbar, MD

24. Doxorubicin Induced Cardiomyopahty: A Case of a Survivor

Roshanak Robati, MD

25. Rehabilitation Outcomes Following Vascular Related Spinal Cord Injury

Amit Sinha, MD

26. Clinical correlation with MRI findings in L5/S1 radiculopathy

John Snyder, MD

27. An Open-Label Study Of Levetiracetam In The Treatment Of Lumbar Radiculopathy

John Snyder, MD

28. Development of an Improved Surveillance Definition for Central Line Associated Bloodstream Infection

Michael Stevens, MD

29. Is Glucocorticoid Induced Osteoporosis being under diagnosed due to lack of screening?

Christie Thomas, MD

30. Multivariate analysis of predictor variables of low back pain: An interim analysis of 170 consecutive low back pain patients

Brian Trussell, MD

31. Which lumbosacral structures are more likely injured after motor vehicle accident, lifting injury, or a fall? An interim analysis of a cross sectional analytic study

Brian Trussell, MD

32. Adaptive Cardiovascular Changes in Fetuses Presenting as Compromised Small for Gestational Age Newborns

Angela Umali, MD

33. Relationship between Alcohol Use Disorders and Cortisol Levels in critically ill Patients with Sepsis

Gregory Wiaterek, MD
Acknowledgements

Judging Panels

**Oral Presentations**

John N. Clore, MD
Professor of Medicine, Associate Vice President for Clinical Research

Jeffrey A. Green, MD
Assistant Professor, Anesthesiology

Evan R. Reiter, MD
Associate Professor, Otolaryngology – Head and Neck Surgery

**Poster Presentations**

Harry D. Bear, MD, PhD
Professor, Oncology, Microbiology and Immunology

Stephanie Call, M.D., M.S.P.H.
Associate Professor, Internal Medicine

Richard Sterling, MD
Associate Professor, Internal Medicine

**Support**

Mary Alice O'Donnell, PhD
Director, Graduate Medical Education

**Administrative and Organizational Support**

Stephanie Brown
Department of Otolaryngology – Head and Neck Surgery