

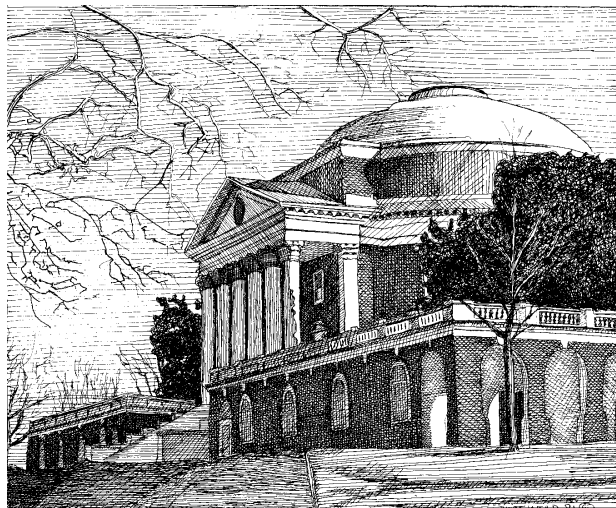
UNIVERSITY OF VIRGINIA
Department of Medicine

CAREY♦MARSHALL♦THORNER

(Virtual)

Research & Scholars' Day

2021



Thursday & Friday,
May 6th & 7th 2021

PROGRAM



May 5th – 7th

Poster Presentations are Being Judged

(There will be no in person poster presentation due to
the ongoing COVID pandemic.

May 6th

Oral Presentations

12 – 1:15pm

Quayle Learning Center, Battle Building

Presenters and judges will be in person. All others can
view via Zoom.

May 7th

Medicine Grand Rounds featuring Dr. Len Schleifer

12 – 1:15pm

delivering the Keynote address.

Education Resource Center Auditorium,
Awards will be given out directly afterwards.

Oral Presentations:

ZOOM LINK FOR ORALS:
PASSWORD: UVADOM

<https://virginia.zoom.us/j/93448659576?pwd=WGRaRjVTS09pQ1pJZ1k2UUtHM2Njdz09>

Christopher Hanson:

- Long-Term Outcomes in Patients with Normal Coronary Arteries, Non-obstructive, or Obstructive Coronary Artery Disease on Invasive Coronary Angiography

Lyndsey Muehling:

- Failure of adaptive immunity to the common cold to protect from re-infection with the either same or a different viral strain in a human sequential infection model

James Alsobrooks:

- Delay in Biopsy for Diagnosis of Symptomatic Sarcoidosis Associates with Multisystem Disease

Rebecca Corey:

- Optimization of Vascular Access to Reduce Catheter-Associated Deep Vein Thrombosis

Marten Hawkins:

- Clinical Risk Factors for Ceftriaxone Non-Susceptible *Escherichia coli* and *Klebsiella pneumoniae* (CNSEcKp) Bloodstream Infections (BSI)

Poster Presentations

(The name of the primary author is underlined)

Virtual

Poster Presentations

Allergy, Asthma & Immunology

1. **The α -Gal syndrome presenting with isolated gastrointestinal symptoms**

Thomas Makin, Anna Smith, Thomas A. E. Platts-Mills, Jeffrey M. Wilson; University of Virginia, Charlottesville, VA

Cardiovascular Medicine

2. **Diagnostic Accuracy of Spiral Whole-Heart Quantitative Adenosine Stress Cardiovascular Magnetic Resonance with Motion Compensated L1-SPIRIT**

Jonathan A. Pan MD, Austin A. Robinson MD, Yang Yang PhD, Patricia Rodriguez Lozano MD, Stephen McHugh MD, Eric M. Holland MD, Craig H. Meyer PhD, Angela M. Taylor MD, Christopher M. Kramer MD, Michael Salerno MD, PhD; University of Virginia, Charlottesville, VA

3. **An Exercise Induced Hyperemia ASL and CrCEST combined protocol at 3T in the Study of Metabolic and Perfusion Changes Post Revascularization in Peripheral Arterial Disease**

Toral R Patel¹, MD; MD; Helen L Sporkin², BS; Yaqub Betz, MD¹; Craig H Meyer^{2,3}, PhD; Christopher M Kramer^{1,3}, MD Departments of Medicine (Cardiology)¹, Biomedical Engineering², and Radiology and Medical Imaging³ University of Virginia, Charlottesville, VA, USA

4. **Single cell profiling identifies atheroprotective IgMMDA-LDL-producing human B cells and a novel role for CD24**

Tanyaporn Pattarabanjirda^{b,c}, Anh Tram Nguyen^b, Chantel McSkimming^a, Huy Dinhe, Melissa A. Marshalla, Yanal Ghoshehe, Rishab Gulatie, Chistopher Durante, Jenifer Vallejo, Ryosuke Saigusae, Fabrizio Dragoa, Angela M. Taylor^{b,d}, Sotirios Tsimikase, Yury Millere, Klaus Leyf, Catherine Hedrick^f, Coleen A. McNamara^{a,b,d,*}

5. **Comparison of metabolic determinants of coronary microvascular disease in a cardiac PET cohort.**

Joseph Van Galen, Sarah Ratcliffe, Jamieson Bourque

6. **Routine Carotid Ultrasound Prior to Trans catheter Aortic Valve Replacement Does Not Predict Peri-Procedural Stroke**

Anna van Venrooy, Michael Ragosta, D Scott Lim, Kenan Yount, Angela M Taylor

Gastroenterology & Hepatology

7. **Positive attitudes towards telehealth during the Covid19 pandemic: a strong sign for continued use in the IBD population**
Brunette C. Figueroa E; University of Virginia, Charlottesville, VA
8. **Clostridioides difficile Infection Trends in a Health System during COVID-19 Pandemic**
Nisa Desai
9. **EARLY RECURRENCE OF COLONIC POLYPS REDUCED WITH THERMAL ABLATION OF ENDOSCOPIC MUCOSAL RESECTION MARGINS: A NON-RANDOMIZED RETROSPECTIVE STUDY**
Irene C Perez, Daniel Strand, Andrew Copland
10. **A Simple Quality Initiative Significantly Improves Post-Procedural Documentation of an Anticoagulation Plan After Elective Endoscopy**
Benjamin S. Robey, Katya Swarts, Rohan M. Modi, Mark J. Radlinski, Javelle A. Wynter, James M. Scheiman, Andrew P. Copland
11. **TIMING AND ROLE OF PARACENTESIS IN THE MANAGEMENT OF SPONTANEOUS BACTERIAL PERITONITIS**
Mohammed Shwetar, Brian Wentworth, Neeral Shah; University of Virginia, Charlottesville, VA

General Medicine

12. **Timing of PERT Activation and Outcomes in Acute Pulmonary Embolism**
Barnett ME, Sharma A; University of Virginia, Charlottesville VA
13. **Creatine Chemical Exchange Transfer MRI to Evaluate Calf Muscle Energetics in Peripheral Arterial Disease**
Yaqub M Betz, MD; Toral Patel, MD; MS; Helen L Sporkin, BS; Craig Meyer PhD, Christopher M Kramer, MD
14. **Increased Left and Right Atrial Volume Indices are Associated with Decreased Survival Times post-Cardiac Arrest**
Olivia Blazek
15. **Transfusion with Cryoprecipitate for Very Low Fibrinogen Levels Does Not Affect Bleeding or Survival in Critically Ill Cirrhosis Patients**
Isadore M. Budnick, Jessica P.E. Davis, Anirudh Sundararaghavan, Samuel B. Konkol, Chelsea E. Lau, James P. Alsobrooks, Matthew J. Stotts, Nicolas M. Intagliata, Ton Lisman, Patrick G. Northup

16. **Facilitating the Flow: Improving overnight RN to daytime MD communication**
Clemo R, Miller B, Braun E, Freemire K, Greene K.
17. **Systemic Pulsatility Indexed to Central venous Pressure is associated with Adverse Clinical Outcomes in Advanced Heart Failure**
Cutts, J, Bilchick K, Miller M, Aktan I, Stafford P, Abeya F, Kwon Y, Mehta N, Nuotong S, David S, Breathett K, Mubanga M, Mwansa H, Mazimba S
18. **Impact of Physician Identification Cards on Patient Enrollment in Discharge Programs: Improving Trust through Simple Interventions**
Dooley MM, Chisholm J, Henderson A, Hall J.
19. **Using Continuous Glucose Monitoring to Improve Hemoglobin A1c in Type 2 Diabetes: A Retrospective Study**
Taylor A Fie, Mary Voelmle; University of Virginia, Charlottesville, VA
20. **Three Site Testing of Sexually Transmitted Infections in People Living with HIV in One Southeastern Ryan White HIV/AIDS Program Clinic: First Year of Experience**
Maria Geba, MD, Samuel Powers, BA, Brooke Williams, BS, Kathryn R Dort, FNP, Elizabeth T. Rogawski McQuade, PhD, Kathleen A. McManus, MD
21. **Reduced Adiponectin Levels in Patients with COVID-19 Acute Respiratory Failure: A Case-Control Study**
Sean M. Kearns, MD; Katelyn W. Ahern, PhD; James T. Patrie, MSc; William B. Horton, MD, FACP; Thurl E. Harris, PhD; Alexandra Kadl, MD, MSc
22. **HCV eConsult Pilot Survey**
Harriet King
23. **Impact of pharmacist-assisted medication review on the rate of medication errors in discharges to skilled nursing facilities**
Levit A, Inofuentes A, McLlarky J, Chilmaid M, Dreicer J, Delk B, Lau G
24. **Right ventricular to left ventricular internal diameter in diastole predicts right ventricular failure after left ventricular assist device implantation in patients with advanced heart failure.**
Sawch DM, Bilchick KC, Ababio P, Mazimba S; University of Virginia, Charlottesville, VA

25. **Bronchoscopy with Bronchoalveolar Lavage in Immune Checkpoint Inhibitor Induced Pneumonitis: Does it Change Management?**
Anirudh Sundararaghavan, Robert C Wharton, Andrew J Barros, Elizabeth C Gaughan, Richard D Hall, Ryan D Gentzler, Jeffrey M Sturek; University of Virginia, Charlottesville, VA
26. **Arthrocentesis procedure kit availability and impact on inpatient joint taps**
Topilow, JS, Meindertsma, J; University of Virginia, Charlottesville, VA
27. **Impact of Palliative Care Consultation on Readmission Rates for Patients with Metastatic Lung or Colon Cancer at the University of Virginia**
Wood, S, Pierce, E, Melson, J, Abraham, R, Hanson, L.
28. **Implementation of a Mentorship Program to Serve Person's Underrepresented in Medicine at the University of Virginia**
E. Wynter, MD

Hematology and Oncology

29. **Myeloid Cell Infiltration Correlates with Prognosis and Varies Based on Tumor Location in Cholangiocarcinoma**
Sean C. Dougherty, Kevin Lynch, Rachel Whitehair, Max Meneveau, Joseph M. Obeid, Kevin Winters, Jennifer Ju, Edward B. Stelow, Todd W. Bauer, Paul R. Kunk, Craig L. Slingsluff Jr and Osama E. Rahma

Infectious Disease and International Health

30. **Adenosine Deaminase Negative Pleural Tuberculosis: A Case Report and Review**
Zachary H. Boggs MD, Scott Heysell MD, MPH, Joshua Eby MD, Christopher Arnold MD
31. **Usage of the mHealth Application PositiveLinks among Older People Living with HIV**
Campbell BR, Sheno S, Rosanova J, Dillingham R
32. **IL-13 is a driver of COVID-19 severity**
Alexandra N. Donlan, Tara E. Sutherland, Chelsea Marie, Saskia Preissner, Ben T. Bradley, Rebecca M. Carpenter, Jeffrey M. Sturek, Jennie Z. Ma, G. Brett Moreau, Jeffrey R. Donowitz, Gregory A. Buck, Myrna G. Serrano, Stacey L. Burgess, Mayuresh M. Abhyankar, Cameron Mura, Philip E. Bourne, Robert Preissner, Mary K. Young, Genevieve R. Lyons, Johanna J. Loomba, Sarah J Ratcliffe, Melinda D. Poulter, Amy J. Mathers, Anthony J. Day, Barbara J. Mann, Judith E. Allen, William A. Petri, Jr.

33. **The MOCT II study: Implementation of a multi-organization mobile health technology-based program to expand access to patient-centered care and antiretroviral therapy for people living with HIV with or without tuberculosis in Irkutsk, Siberia**
Hodges, Jacqueline, Koshkina, Olga, Plenskey, Alexey, Suzdalnitsky, Alexey, Waldman, Ava Lena, Zhdanova, Svetlana, Schwendinger, Jason, Vitko, Serhiy, Plotnikova, Yulia, Moiseeva, Elena; Koshcheyev, Mikhail, Sebekin, Sergey, Ogarkov, Oleg, Heysell, Scott, Dillingham, Rebecca

34. **Assessing Environmental Surfaces for Contamination with *P. aeruginosa* in an Intensive Care Unit: A Pilot Study**
Park S, Barry K, Parikh H, Carroll J, Attai A, Mathers A.

35. **Characterizing Use of Follow-Up Blood Cultures (FUBC) in the Management of Gram- Negative Bacilli (GNB) Bloodstream Infections (BSIs)**
Evan Robinson, Heather Cox, Amy Mathers; University of Virginia, Charlottesville, VA

Nephrology & CIIR

36. **MHC-linked *Cmv5^S* is Associated with Severe Inflammation, Tissue Necrosis, and Acute Viral Susceptibility Independent of MHC-I Molecule H-2D**
Annis JL, Crittenden RB, Cronk JM, Billcheck HO, Brown MG; University of Virginia, Charlottesville

37. **Localization of Spinster Homolog 2 (Spns2) in Mouse Kidneys and Significance in Kidney Injury**
Sylvia Cechova, Nabin Poudel, Nataliya Skrypnyk and Mark D. Okusa

38. **CRISPR Ablation of Activation Receptors in Primary NK Cells to Delineate Necessity during Acute Viral Infection**
Cronk JM, Crittenden RB, Brown MG; University of Virginia

39. **Programmed Cell Death Protein 1 (PD-1) Controls Metabolic Activity of Regulatory T Cells in Ischemia-Induced Acute Kidney Injury**
Murat Dogan, Vikram Sabapathy, Rajkumar Venkatadri, Chris O'Neill, Sandhya Xavier, Didier Portilla, Gilbert R. Kinsey, Rahul Sharma

40. **Evaluation of the impact of Delayed Graft Function (DGF) on Kidney Allograft Outcomes**
Joseph Leeds, Badi Rawashdeh, Michael Sestito, Binu Sharma, Jeanne Kamal, Anjushree Kumar, Alden Doyle, Avinash Agarwal, Swati Rao.

41. **Vagus Nerve Stimulation Reshapes the Immune System**
Nash WT, Tanaka S, Okusa MD

42. **Pannexin 1 Channel Regulates Mitochondrial Function and Ferroptosis During Acute Kidney Injury**
Nabin Poudel, Eibhleen Goggins, Nataliya Skrypnyk, Christopher B. Medina, Diane L. Rosin, Kodi S. Ravichandran, Mark D. Okusa
43. **IL-33/ST2 Alarmin Axis Regulates the Diametrical Effect of Myeloid Cells in Acute and Chronic Kidney Injury**
Vikram Sabapathy, Gabrielle Costlow, Rajkumar Venkatadri, Nardos Cheru, Airi Price, Murat Dorgan, Saleh Mohammad, Rahul Sharma
44. **Optogenetic stimulation of the Vagus Nerve Identifies Distinct Pathways that Mediate Kidney Protection from Ischemia-Reperfusion Injury**
Shinji Tanaka, Shuqiu Zheng, Stephen B. Abbott, Daniel S. Stornetta, Diane L. Rosin, Ruth L. Stornetta, Patrice G. Guyenet, Mark D. Okusa
45. **Targeting Interferon Stimulatory DNA (ISD) Pathways and Bcl6 Transcription Factor Rescues TREX1 D18N Animals from Autoimmunity**
Rajkumar Venkatadri, Vikram Sabapathy, Murat Dogan, Saleh Mohammad, Scott Harvey, Fred W. Perrino and Rahul Sharma

Pulmonary Medicine & Critical Care

46. **Patients with Sarcoidosis Associated Pulmonary Fibrosis Do Not Receive Early Immune Suppression In Comparison to Peers without Fibrosis**
J. O. Akingbade, J. P. Alsobrooks, S. Kearns, T. Altherr, K. Brown-Steinke, T. Paul, N. Malik, I. Noth, C. Bonham
47. **Phenobarbital vs. Benzodiazepines in ICU Patients with Severe Alcohol Withdrawal Syndrome.**
Burke, A, Hedrick, A, Hockman, B.
48. **Effect of Gender on the Treatment Responses to Rapamycin on the Progression of Emphysema in Cigarette Smoke Exposed Mice**
Earasi, K., Myc, LA., Obaida, Z., Zhang, Z., Song, C., Macleod, J., He, M., Burdick, MD., Shim, YM.
49. **Probing Early-Stage Pulmonary Pathophysiology in Young Healthy E-Cigarette Users Using Hyperpolarized Xenon-129 MRI**
M. He, K. Qing, N. Tustison, L. A. Myc, J. MacLeod, R. Nunoo-Asare, J. Cassani, M. Marie, Z. Zhang, A. Ropp, G. W. Miller, T. A. Altes, J. Mata, J. Mugler, Y. M. Shim

50. Impact of Streamlined ED Rabies Protocol on Departmental Workflow and Vaccine Schedule Adherence

Jessie L Lipstreuer, Derek Burden, J Nate Hedrick

51. Evaluating In Vivo Biomolecular Outcomes of Tacrolimus Immunosuppression in Lung Transplantation

MacLeod J, He M, Earasi K, Zhang K, Floyd S, Czarnecki M, Struchen S, Herrera R, Nunoo-Asare R, Burdick M, Mannem H, Weder M, Shim YM

52. Differential Gene Expression and Pathway Enrichment May Explain Female Resistance to Emphysema in Murine Models of COPD.

Chunzi Song, Zaid Obaida, Kranthikiran Earasi, Zhimin Zhang, Jamie MacLeod, Mu He, Schroeder Noble, Mikell Paige, Marie Burdick, Yun Shim

PUBLICATIONS
UVA DEPARTMENT OF MEDICINE
RESIDENTS, FELLOWS, STUDENTS
2019-2020

RESIDENTS

1. **Bolte FJ**, Langenstroer C, Friebel F, Hüsing-Kabar A, Dugas M, Schmidt HH. Patient-reported outcomes on familial amyloid polyneuropathy (FAP). *Orphanet J Rare Dis.* 2020 Oct 14; 15(1):287. Doi: 10.1186/s13023-020-01575-6. PMID: 33054844; PMCID: PMC7556910
2. **Pan JA**, Kerwin MJ, and Salerno M. "Native T1 Mapping, Extracellular Volume Mapping, and Late Gadolinium Enhancement in Cardiac Amyloidosis: A Meta-analysis." *JACC Cardiovasc Imaging.* 2020 Jun;13(6):1299-1310
3. Kerwin M, Saado J, **Pan J**, Ailawadi G, Mazimba S, Salerno M, Mehta N. "New-Onset Secondary Atrial Fibrillation and Outcomes Following Isolated Coronary Artery Bypass Surgery: A Systematic Review and Meta-Analysis." [Clin Cardiol.](#) 2020 Sep; 43(9): 928–934
4. **Pan JA**, Robinson AA, Yang Y, Rodriguez Lozano P, McHugh S, Holland EM, Meyer CH, Taylor AM, Kramer CM, Salerno M. "Diagnostic Accuracy of Spiral Whole-Heart Quantitative Adenosine Stress Cardiovascular Magnetic Resonance with Motion Compensated L1-SPIRIT." *J Magn Reson Imaging.* 2021 Apr 6. Doi: 10.1002/jmri.27620
5. **Van Galen J**, Pava L, Wright C, Elbadawi A, Hamer A, Chaturvedi A, Cameron SJ. Effect of platelet inhibitors on thrombus burden in patients with acute pulmonary embolism. *Platelets.* 2021 January; 32(1):138-140

CLINICAL FELLOWS - CARDIOLOGY

6. Lipinski J, Patel SM, **Patel TR**, Kobe D, Saric P, Panhwar M, Nadeem F, Li J, Clevenger JR, Ichibori Y, Fares A, Lang K, Bezerra HG, Sareyyupoglu B, Medalion B, Deo S, Elgudin Y, Markowitz A, Simon DI, Costa MA, Kalra A, Attizzani GF. Transcatheter Valve Implantation for Failed Surgical Aortic and Mitral Bioprostheses: A Single-Center Experience. *J Invasive Cardiol.* 2020 May; 32(5):186-193. Epub 2020 Mar 11. PMID: 32160153
7. Tsushima T, **Patel TR**, Sahadevan J. Unusual Cause of Cardiac Arrest. *JAMA Intern Med.* 2021 Jan 19. Doi: 10.1001/jamainternmed.2020.8370. Epub ahead of print. PMID: 33464284
8. Villines TC, **Rodriguez Lozano P**. Transitioning From Stenosis to Plaque Burden in the Cardiac CT Era: The Changing Risk Paradigm. *J Am Coll Cardiol.* 2020 Dec 15; 76(24):2814-2816. Doi: 10.1016/j.jacc.2020.10.030. PMID: 33303069
9. **Rodriguez Lozano P**, Bourque JM. Beyond traditional cardiovascular risk factors: Could frailty and other morbidities explain the worse prognosis in patients undergoing

pharmacologic stress. *J Nucl Cardiol.* 2020 Nov 25. Doi: 10.1007/s12350-020-02441-5. Epub ahead of print. PMID: 33241477

10. Pan JA, Robinson AA, Yang Y, **Rodriguez Lozano P**, McHugh S, Holland EM, Meyer CH, Taylor AM, Kramer CM, Salerno M. "Diagnostic Accuracy of Spiral Whole-Heart Quantitative Adenosine Stress Cardiovascular Magnetic Resonance with Motion Compensated L1-SPIRIT." Accepted to *Journal of Magnetic Resonance Imaging* on March 18, 2021. DOI: 10.1002/jmri.27620
11. **Rrapo Kaso E.**, Annex B.H. (2020) Imaging Needs for Development of Novel Therapeutics in PAD. In: Kramer C. (Eds) *Imaging in Peripheral Arterial Disease*. Springer, Cham
12. **Rrapo Kaso E**, Kramer C.M. Multimodality imaging for Hypertrophic Cardiomyopathy. *Curr Treat Options Cardio Med* **22**, 26 (2020)
13. **Rrapo Kaso E**, Noutong SA, Denlinger LN, Morsy M, Kramer CM. Timely Management of Obstructive Prosthetic Valve Thrombosis. *JACC Case Reports.* 2019;1(4):477
14. Tsushima T, **Patel TR**, Sahadevan J. Unusual Cause of Cardiac Arrest. *JAMA Intern Med.* 2021 Jan 19. Doi: 10.1001/jamainternmed.2020.8370. Epub ahead of print. PMID: 33464284

CLINICAL FELLOWS – INFECTIOUS DISEASE

15. **Hodges J**, Zhdanova S, Koshkina O, Suzdalnitsky A, Waldman AL, Schwendinger J, Vitko S, Plenskey A, Plotnikova Y, Moiseeva E, Koshcheyev M, Sebekin S, Ogarkov O, Dillingham R, Heysell S. Implementation of a Mobile Health Strategy to Improve Linkage to and Engagement with HIV Care for People Living with HIV, Tuberculosis, and Substance Use in Irkutsk, Siberia. *AIDS Patient Care and STDs.* 2021;35(3), 84-91
16. **Hodges J**, Matsumoto J, Jaeger N, Wispelwey B. Gradenigo's Syndrome and Bacterial Meningitis in a Patient with a Petrous Apex Cholesterol Granuloma. *Case Reports in Infectious Diseases.* Vol 2020, Article ID 8822053 (2020)

CLINICAL FELLOWS – NEPHROLOGY

17. Abdel-Rahman EM, Metzger M, Blackhall L, **Asif M**, **Mamdouhi P**, **MacIntyre K**, **Casimir E**, Ma JZ, Balogun RA. Association between Palliative Care Consultation and Advance Palliative Care Rates: A Descriptive Cohort Study in Patients at Various Stages in the Continuum of Chronic Kidney Disease. *J Palliat Med.* 2020 Sep 30. Doi: 10.1089/jpm.2020.0153. Epub ahead of print. PMID: 32996797
18. Chopra T, **Kanaan L**, Abdel-Rahman EM. Ed. Knicely D, Abdel-Rahman EM and Greenberg K., *Complications of Home Hemodialysis*. Hemodialysis Handbook, McGraw-Hill, 2021
19. Hassan M.O., **Owoyemi I**, Abdel-Rahman E.M., Ma J.Z., Balogun R.A. Association of Race with In-Hospital and Post-Hospitalization Mortality in Patients with AKI. *Nephron* 2021 <https://doi.org/10.1159/000511405>

POSTDOCTORAL FELLOWS – ALLERGY, ASTHMA AND IMMUNOLOGY

20. Keshavarz B, Wiencek J, Workman L, Straesser M, **Muehling L**, Canderan G, Drago F, Bonham C, Sturek J, Ramani C, McNamara C, Woodfolk J, Kadl A, Platts-Mills T, Wilson J. Quantitative measurement of IgG to Severe Acute Respiratory Syndrome Coronavirus-2 proteins using ImmunoCAP. *Int Arch Allergy Immunol*. 2021; DOI: 10.1159/000514203
21. **Muehling L**, Agrawal R, Wright P, Carper H, Murphy D, Workman L, Word C, Eccles J, Ratcliffe S, Capaldo B, Turner R, Platts-Mills T, Heymann P, Kwok W, Woodfolk J. Human Th1 and Th2 cells targeting rhinovirus and allergen coordinately promote allergic asthma, *J Allergy Clin Immunol*. 2020; 146: 555-570
22. Heymann P, Platts-Mills T, Woodfolk J, Borish L, Murphy D, Carper H, Conaway M, Patrie J, Steinke J, **Muehling L**, Teague W, Kennedy J, Irani A-M, McGraw M, Early S, Wheatley L, Turner R. Understanding the asthmatic response to an experimental rhinovirus infection: Exploring the effects of blocking IgE, *J Allergy Clin Immunol*. 2020; 146: 545-554
23. Altman M, Beigelman A, Ciaccio C, Gern J, Heymann P, Jackson D, Kennedy J, Klopfer K, Lemanske R, McWilliams L, **Muehling L**, Nance C, Stokes Peebles R. Evolving concepts in how viruses impact asthma: A Work Group Report of the Microbes in Allergy Committee of the American Academy of Allergy, Asthma, and Immunology, *J Allergy Clin Immunol*. 2020;145: 1332-1344
24. Eccles J, Turner R, Kirk N, Thacker D, **Muehling L**, Borish L, Steinke J, Lehtinen S, Lehtinen M, Wright P, Heymann P, Woodfolk J. Tissue-homing memory B cells rapidly induce local cross-reactive IgG upon human rhinovirus infection, *Cell Reports*. 2020;30: 351-356

POSTDOCTORAL FELLOWS – CARDIOVASCULAR MEDICINE

25. **Hanson CA**, Kamath A, Gottbrecht M, Ibrahim S, Salerno M. T2 Relaxation Times at Cardiac MRI in Healthy Adults: A Systematic Review and Meta-Analysis. *Radiology* 2020:200989
26. Bourque JM, **Hanson CA**, Agostini D, et al. Assessing myocardial perfusion in suspected coronary artery disease: rationale and design of the second phase 3, open-label multi-center study of flurpiridaz (F-18) injection for positron emission tomography (PET) imaging. *Journal of Nuclear Cardiology*. 2021
27. Kramer CM, **Hanson CA**. CMR Parametric Mapping in Immune Checkpoint Inhibitor Myocarditis: Novel Noninvasive Tools in a Lethal Condition*. *Journal of the American College of Cardiology* 2021; 77:1517–1519
28. **Hanson CA**, Patel TR, Villines TC. The Role of Cardiac Imaging Following the Ischemia Trial. *Current Treatment Options in Cardiovascular Medicine*. 2021

29. Aparna B, **Hanson CA**, McArdle M, Lall SK, Beller GA, Bourque JM: Lead aVR Predicts Early Revascularization but not Long- Term Events in Patients Referred for Stress Electrocardiography. PLOS ONE accepted in press 2021

POSTDOCTORAL FELLOWS – NEPHROLOGY

30. **Cai, J., W.T. Nash**, and M.D. Okusa. Pulsed Ultrasound Therapy in Systemic Inflammatory Diseases. Invited Review, in press Am J Physiol Renal Physiol. 319:F125-F13, 2020. PMCID: PMC7468827
31. Tyson CC, Luciano A, Modliszewski JL, Corcoran DL, Bain JR, Muehlbauer M, Ilkayeva O, Pourafshar S, Allen J, Bowman C, **Gung J**, Asplin JR, Pendergast J, Svetkey LP, Lin P-H, Scialla JJ. Effect of bicarbonate on net acid excretion, blood pressure and metabolism in patients with and without CKD: the Acid Base Compensation in CKD Study. Am J Kidney Dis 2020. [in press]
32. **Hall R**, Platt A, Wilson J, Ephraim P, **Hwang A**, Chen A, Weiner D, Boulware LE, Pendergast J, Scialla J. Trends in mineral metabolism treatment strategies in patients receiving hemodialysis in the United States. Clin J Am Soc Nephrol 2020; 15(11):1603-1613. Doi: 10.2215/CJN.04350420
33. **Inoue, T., S. Tanaka**, T.Kohro, L.X. Li, L. Huang, J. Yao, S. Ando, H.Ye, A. Bajwa, D. L. Rosin, K. Ishihara, M. Nangaku, Y. Wada and M.D. Okusa “Bone marrow stromal cell antigen-1, a target of Sphk2, is Important for inducing renal ischemia-reperfusion injury and fibrosis”
34. **La Salvia S**, Musante L, Lannigan J, Gigliotti JC, Le TH, Erdbrügger U. [T cell-derived extracellular vesicles are elevated in essential HTN.](#) Am J Physiol Renal Physiol. 2020 Nov 1; 319(5):F868-F875. Doi: 10.1152/ajprenal.00433.2020. Epub 2020 Oct 5. PubMed PMID: 33017187; PubMed Central PMCID: PMC7789979
35. **La Salvia S**, Gunasekaran PM, Byrd JB, Erdbrügger U. [Extracellular Vesicles in Essential Hypertension: Hidden Messengers.](#) Curr Hypertens Rep. 2020 Sep 3; 22(10):76. Doi: 10.1007/s11906-020-01084-8. Review. PubMed PMID: 32880744
36. **Lunyera J**, Clare R, Chiswell K, Scialla J, Pun P, Thomas K, Starks M, Diamantidis CJ. Racial differences in AKI incidence following percutaneous coronary intervention. J Am Soc Nephrol 2020. [In press]
37. **Oluwo O**, Scialla JJ. Uric Acid and CKD Progression Matures with Lessons for CKD Risk Factor Discovery. Clin J Am Soc Nephrol 2020. Epub ahead of print.
38. **Poudel, N., S. Zheng, C. M. Schinderle, N. Sun, S. Hu, and M. D. Okusa.** Peritubular Capillary Oxygen Consumption: Photoacoustic Microscopy. Nephron 144(12):621-625, 2020
39. **Sabapathy, V., Venkatadri, R., Dogan, M., Sharma, R.** The Yin and Yang of Alarmins in Regulation of Acute Kidney Injury. Front Med (Lausanne)

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