Stanford MEDICINE | Department of Medicine

Stanford Medicine Residency Research Interest Group Newsletter

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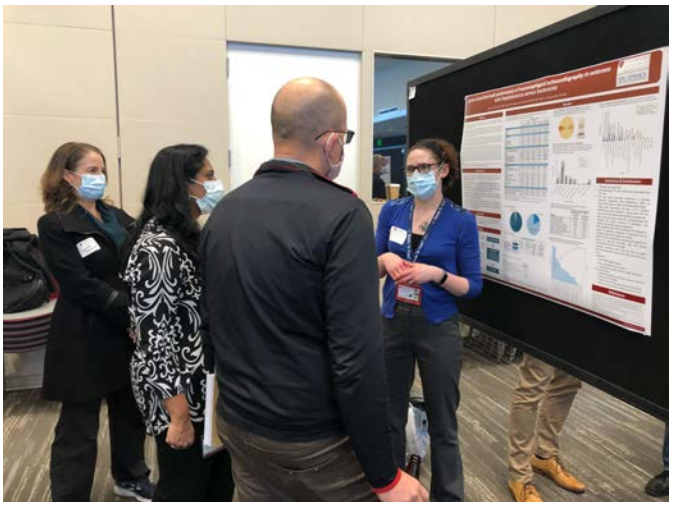
Dear Colleagues,

Welcome to the Spring 2022 edition of our medicine residency research newsletter! A special welcome to all our new interns – we hope to support your interest and involvement in research throughout your time at Stanford.

This publication is aimed at both highlighting our residents' exciting projects as well as informing trainees and recruits about the scholarly work taking place at Stanford. We define *research* comprehensively, including scholarly work done in quality improvement, global health, outcomes research, medical education, clinical investigation, translational research, implementation science, qualitative studies, clinical trials, and device/service innovation. Without further ado:

Stanford Annual Residency Research Symposium

This Spring, we hosted our annual Residency Research Symposium! Residents presented posters of their scholarly works and research to the Department of Medicine Chair, Vice Chair, Program Directors, as well as other faculty, fellows and residents.



Resident Spotlight: Emily Woods

Second year resident Emily Woods presented her research work entitled "Factors associated with performance of transesophageal echocardiography in veterans with *Staphylococcus aureus* bacteria". This project, under the mentorship of Global Health APD Dr. Cybele Renault, characterized the use and performance of TEEs as compared to TTEs – addressing an important question that almost every internal medicine resident is likely to face! In addition to her work on *Staphlyococcus aureus*, Emily has also researched *C. difficile* and SARS-CoV-2. A graduate of Emory, Emily completed her MD/PhD with a focus on antimicrobial resistance, and plans to pursue an infectious diseases fellowship.

Scholarly Work:

Congratulations to the following authors for their most recent publications and presentations over the past few months!

Third Year+ Residents:

1. **Aditya J. Ullal**, Holmes DN, Lytle BL, Matsouaka RA, Sheng S, Desai NR, Curtis AB, Fang MC, McCabe PJ, Fonarow GC, Russo AM, Lewis WR, Heidenreich PA, Piccini JP, Turakhia MP, Perino AC on behalf of the GWTG-AFIB Working Group. Achievement and Quality Measure Attainment in Patients Hospitalized with Atrial Fibrillation: Results from the Get With The Guidelines – Atrial Fibrillation (GWTG-AFIB) Registry. Am Heart J. 2022 Mar; 245:90-99. [PMID: 34932998]
2. Alexander J. Rodriguez, **Christian O'Donnell**; Training in a Combined Internal Medicine and Anesthesiology Residency Program. ASA Monitor 2022; 86:41 doi: https://doi.org/10.1097/01.ASM.0000820444.92329.73
3. Wang H, Pargaonkar VS, Hironaka CE, Bajaj SS, Abbot CJ, **Christian O'Donnell**, Miller SL, Honda Y, Rogers IS, Tremmel JA, Fischbein MP, Mitchell RS, Schnittger I, Boyd JH. Off-Pump Minithoracotomy Versus Sternotomy for Left Anterior Descending Myocardial Bridge Unroofing. Ann Thorac Surg. 2021 Nov;112(5):1474-1482. doi: 10.1016/j.athoracsur.2020.11.023. Epub 2020 Dec 14. PMID: 33333083.
4. **Christian O'Donnell**, Ashland MD, Vasti EC, Lu Y, Chang AY, Wang P, Daniels LB, de Lemos JA, Morrow DA, Rodriguez F, O'Brien CG. N-Terminal Pro-B-Type Natriuretic Peptide as a Biomarker for the Severity and Outcomes With COVID-19 in a Nationwide Hospitalized Cohort. J Am Heart Assoc. 2021 Dec 21;10(24):e022913. doi: 10.1161/JAHA.121.022913. Epub 2021 Dec 10. PMID: 34889112.
5. **Emily C. Liang**, Perkins C, Lu R, Abuel J, Langford C, DeVore D, Fechter L, Abidi P, Shomali S, Gotlib J. Organ damage at initial presentation across the spectrum of advanced systemic mastocytosis variants. American Society of Hematology Annual Meeting. Atlanta, GA. 2021. [Poster Presentation]
6. **Emily C. Liang**, Chen C, Lu R, Mannis GN, Muffly L. Measurable residual disease status and FLT3 inhibitor therapy in patients with FLT3-ITD mutated AML following allogeneic hematopoietic cell transplantation. American Society of Hematology Annual Meeting, Atlanta, GA. 2021. [Poster Presentation]
7. Pickering H, Schaenman J, Rossetti M, Ahn R, Sunga G, **Emily C. Liang**, Bunnapradist S, Reed EF. T cell senescence and impaired CMV-specific response are associated with infection risk in kidney transplant recipients. Human Immunology. 2022. [PMID: 35190203]
8. **Maggie Zhou**, Javadi C, Charville GW, Bui NQ, Harris EJ, Poultsides GA, Norton JA, Visser B, Lee B, Dua MM, Ganjoo KN. Surgical resection of leiomyosarcoma of the inferior vena cava: A case series and literature review. Surg Oncol. 2021 Dec;39:101670. Epub 2021 Oct 22. [PMID: 34710646.]
9. **Maggie Zhou**, Bui NQ, Charville GW, Ghanouni P, Ganjoo KN. Current management and recent progress in demoed tumors. Cancer Treatment and Research Communications. 2022. [Accepted]
10. **Maggie Zhou**, Javadi C, Charville GW, Bui NQ, Harris EJ, Poultsides GA, Norton JA, Visser B, Lee B, Dua MM, Ganjoo KN. Surgical resection of leiomyosarcoma of the inferior vena cava: A case series and literature review. Surg Oncol. 2021 Dec;39:101670. Epub 2021 Oct 22. [PMID: 34710646.]
11. **Ramya Balijepally**, Kwong D, Zhu L, Camacho JV, Liu A. Elexacaftor/tezacaftor/ivacaftor outpatient desensitization. 2021. [PMID: 34391901]
12. **Ramya Balijepally**, Moir E, Liu A. Primary Care Physicians Detail Barriers To Handling Antibiotic Allergies And To Making Allergy Referrals. ACAAI Annual Scientific Meeting 2021. New Orleans, LA. 2021. [Poster Presentation]
13. **Balijepally R**, Kwong D, Zhu L, Camacho JV, Liu A. Elexacaftor/tezacaftor/ivacaftor outpatient desensitization. 2021. PMID: 34391901.
14. Christina M Dieli-Conwright, Louise Wong, **Sarah Waliany**, Joanne E Mortimer. Metabolic syndrome and breast cancer survivors: a follow-up analysis after completion of chemotherapy. Diabetology & Metabolic Syndrome. 2022 Mar 3;14(1). [PMID: 35241143]

Second Year Residents:

1. **Raul Vazquez-Reyes**, Kirsten Regalia, Andrew John Sweatt, Linda Anh Bui Nguyen, Gundeep Dhillon, Patricia Garcia, Andres C Gottfried-Blackmore, Afrin Kamal, Joshua James Mooney, Irene Sonu, George Triadafilopoulos, John O Clarke. Botulinum Toxin Injection Improves Symptoms and Gastric Emptying after Lung Transplantation but Does Not Affect Pulmonary Outcomes: A 19-Year Retrospective Series. Digestive Disease Week 2022. [Poster presentation]
2. Sunhee Park, Kian Keyashian, Andrew Ho, David Limsui, Spencer Frost, **Raul Vazquez-Reyes**, Joseph Ebriani, Eleanor Yang, Nimisha K Parekh, Jenny S Sauk, Berkeley N Limketkai. Efficacy and Safety of Ustekinumab and Vedolizumab For Crohn's Disease of the Pouch. Digestive Disease Week 2022. [Oral presentation]
3. **Stefano Testa**, Mugdha Joshi, Lotfi J, Lin B, Artandi M, Chiang KF, Chang K, Singh B, Geng LN. Training Internal Medicine Residents in Difficult Diagnosis: A Novel Diagnostic Second Opinion Clinic Experience. J Med Educ Curric Dev. 2022 [PMID: 35372696]
4. **Stefano Testa**, Bui NQ, Wang DS, Louie JD, Sze DY, Ganjoo KN. Efficacy and Safety of Trans-Arterial Yttrium-90 Radioembolization in Patients with Unresectable Liver-Dominant Metastatic or Primary Hepatic Soft Tissue Sarcomas. Cancers (Basel). 2022 [PMID: 35053486]
5. Mooney KL, Czerwinski DK, Shree T, Frank MJ, Haebe S, Martin BA, **Stefano Testa**, Levy R, Long SR. Serial FNA allows direct sampling of malignant and infiltrating immune cells in patients with B-cell lymphoma receiving immunotherapy. Cancer Cytopathol. 2022 [PMID: 34780125]
6. **Stefano Testa**, Hu BD, Saadeh NL, et al. A Retrospective Comparative Analysis of Outcomes and Prognostic Factors in Adult and Pediatric Patients with Osteosarcoma. Current Oncology. 2021 [PMID: 34940082]
7. **Jaspreet Pannu**, JB Sandbring, M Watson, MJ Palmer, DA Relman. Protocols and risks: when less is more. Nature Protocols. 2021 [PMID: 34873329]
8. **Jaspreet Pannu**, DA Relman, M Lipsitch, T Inglesby, et al. Recommendations to Strengthen the USG Enhanced Potential Pandemic Pathogen Framework. Center for Health Security. 2022 [White Paper]

First Year Residents:

1. **Sulaiman Somani**, Honarvar H, Narula S, Landi I, Lee S, Khachatoorian Y, Rehmani A, Kim A, De Freitas JK, Teng S, Jaladanki S, Kumar A, Russak A, Zhao SP, Freeman R, Levin MA, Nadkarni GN, Kagen AC, Argulian E, Glicksberg BS. Development of a machine learning model using electrocardiogram signals to improve acute pulmonary embolism screening. European Heart Journal - Digital Health. 2022. [PMID: 35355847]
2. Vaid A, Johnson KW, Badgley MA, **Sulaiman Somani**, Bicak M, Landi I, Russak A, Zhao S, Levin MA, Freeman RS, Charney AW, Kukar A, Kim B, Danilov T, Lerakis S, Argulian E, Narula J, Nadkarni GN, Glicksberg BS. Using deep-learning algorithms to simultaneously identify right and left ventricular dysfunction from the electrocardiogram. JACC: Cardiovascular Imaging. 2022. [PMID: 34656465]
3. Jonathan Xin Wang*, **Sulaiman Somani***, Chen JH, Murray S, Sarkar U. Health Equity in Artificial Intelligence and Primary Care Research: Protocol for a Scoping Review. JMIR Research Protocols. 2021. [PMID: 34533458]

Best,
Stanford Internal Medicine Research Interest Group

If you have research you'd like to have highlighted in the newsletter (or know of work other residents or recent graduates have taken part in) or are interested in being involved in the research interest group please make sure to email us at testa21@stanford.edu. You can also submit your scholarly work for future inclusion in the next newsletter via this form.