



Stanford
MEDICINE

Department
of Medicine

Stanford Medicine Residency Research Interest Group Newsletter

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Dear Colleagues,

Welcome to the Fall 2018 edition of our medicine residency research newsletter! This publication is aimed at both highlighting our residents' exciting projects as well as informing trainees and recruits about the types of investigations being performed 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:

Resident Research Symposium:

The **1st Annual Stanford Internal Medicine Research Poster Session** was held on Tuesday, June 12, 2018, in the Stanford University School of Medicine Li Ka Shing Building.

It was tremendous!

Nearly 50 residents presented posters of their scholarly works, covering the gamut of specialties and ranging from global health to medical education. Exuberant discussions and insights filled the air and set a solid stage for future symposiums to come. We thank Dr. Angela Rogers for being our faculty lead on this initiative, Dr. Bob Harrington (our Chairman) for his support, as well as all faculty participants and judges for the poster awards. Most importantly, we thank and congratulate our fellow residents for all the effort they have put into their respective works, all with the ultimate aim of improving the lives of our patients.



Stanford Resident Researcher Spotlight:

This Fall, we have the incredible opportunity to spotlight one of our true research superstars, **Sonia Shah!**

Tell us a little about yourself

SS: I grew up in central Florida and was a huge science nerd. I competed in the annual science fair from the age of 12 and was pipetting like a pro before I even started high school. My research projects ranged from examining the effects of water chemistry on algae growth in the Everglades, to evaluating the role of gene therapy in treating alpha-1 antitrypsin deficiency, to studying respiratory neuroplasticity in rats with cervical spinal cord injury. While these experiences did not help my popularity, they ultimately shaped my approach to problem-solving and have made me a strong believer in evidence-based medicine. I went to Northwestern University in Chicago for my undergraduate and medical training, and I am currently applying for cardiology fellowship with my husband (and co-resident!) Viraj Raygor.



Why Stanford?

SS: I still remember my interview dinner at Stanford and thinking that the residents I met that evening were not only brilliant, but really down-to-earth and clearly happy. That thought lingered with Viraj and me for a while after our interview, and after couples-matching here together, we were pleased to discover that our initial impression was right. Our connection to a world class university and Silicon Valley comes with a wealth of opportunities, but it is really the people here that make Stanford special.

Tell us about your current QI/research activities

SS: My research interests are primarily in women's cardiovascular health-- specifically clinical outcomes in women with coronary and valvular disease. Previously, I worked with Dr. Paul Heidenreich in the Department of Cardiology examining sex differences in short-term outcomes after TAVR. Currently, I am working with Dr. William Fearon in the Department of Interventional Cardiology examining sex differences in cardiac events and quality of life in patients with non-obstructive coronary artery disease and microvascular dysfunction. Non-obstructive CAD is much more common in women than men and is associated with a high rate of morbidity and mortality. Despite this, non-obstructive CAD has not been well studied, and there are currently no guidelines on the management of these patients other than standard risk-factor modification.

What advice do you have for interns and residents interested in scholarly activity?

SS: Start early and find a good mentor. Stanford has many accomplished clinical and basic science researchers, but it is important to find one who is willing to guide you and invest in your professional success. Don't be afraid to meet with multiple potential mentors before you make your decision and be upfront and realistic about your research goals. Also, it is okay (and encouraged!) to have more than one mentor, as the demands of a given project may vary over the course of a year. Researchers with access to large databases are also a great resource. You can often get multiple publications from a single database. For interns interested in a particular specialty, feel free to ask the PGY2s and PGY3s about their mentors to determine if these individuals are a good fit for you as well.

Stanford Faculty Researcher Spotlight:

For the Fall 2018 Newsletter, we have the great pleasure of spotlighting **Dr. Kenneth Mahaffey**. Dr. Mahaffey achieved his B.S. in Chemistry at Stanford and went on to receive his M.D. at the University of Washington. He completed his Internal Medicine residency and Chief Residency at the University of Arizona, followed by a Cardiology fellowship at Duke University. He remained on as a faculty member at Duke following his fellowship, where he made a name for himself designing and conducting large-scale, multinational clinical trials. He rose through the ranks to become a Professor of Medicine as well as an Associate Director of the Duke Clinical Research Institute, and was involved with a number of high-profile trials, including ATBAT, SYNERGY, PLATO, ROCKET-AF, CHAMPION, and TRACER. He joined Stanford in 2013 and is currently the Vice Chair of Medicine for Clinical Research in the Department of Medicine as well as the Director of the Stanford Center for Clinical Research (SCCR). Despite his busy schedule, Dr. Mahaffey has taken an active role in promoting resident research and is currently the Co-Director of the Clinical Research POD as well as a faculty advisor to the Residency Research Interest Group. We are incredibly fortunate to have him at Stanford and are so pleased to be able to highlight his unique perspective in this newsletter.



Tell us a bit about yourself and the path you took, particularly in your early career, to reach where you are today.

KM: As long as I can remember, I wanted to be a scientist. My dad has a PhD in Physics and my mom was a mathematician – my aspiration was probably not just a coincidence. Dinner conversations were often about wave forms rather than the geopolitical climate of the time. I didn't start out as a pre-med, but during my junior year in college I decided that I wanted to pursue medicine – engaging with humans, doing experiments, and thinking quantitatively seemed like a great combination.

I was very fortunate to have had a series of medical school and residency mentors who provided me many opportunities. As a chief resident, I worked in an animal lab and had plans to continue that work in fellowship at Duke. Once I got to Duke, I met a group of clinical researchers at the Duke Cardiovascular Databank (the foundation of the Duke Clinical Research Institute) who became life-long mentors and friends – Rob Califf, Chris Granger and Bob Harrington. Califf asked me one Saturday morning after CCU rounds what I was going to do with my life --- I told him my plans to run an animal lab and explore novel therapies for CHF. He asked, “why on earth would you want to do that?” I said I enjoyed generating data, analyzing it, making inferences, and determining the implications for the next set of experiments. He told me he was generating data in trials with 10,000 patients I could analyze instead of data from studies with 10 rabbits. I've never been in another animal lab. I have spent the past 25 years designing and conducting phase 2 and phase 3 clinical trials as well as leading research groups that create the infrastructure for others to conduct their research.

What is your advice for approaching research as budding academic physicians?

KM: There are so many opportunities to get engaged in clinical research in the Stanford environment, so find a mentor and find a project. The Chief Residents, the Research Interest Group, or your POD leaders can help you connect with faculty if you have not been able to find a good mentor. Ideally you will find someone with a good mentoring track record, someone you enjoy spending time with, and someone clinically active or doing research in your area of interest. There are three things to prioritize as a house officer doing research:

1. Write, write, write –

Write review articles, write papers of analyses from established databases that are available from STARR, from Population Health Sciences, from the Quantitative Sciences Unit (QSU), from the Stanford Center for Clinical Research (SCCR), or find researchers who have created registries or data sets in specific populations. There are many options across the School of Medicine. These ‘data on the shelf’ projects are great opportunities to hone your writing skills and they don't depend on you creating a prospective dataset.

2. Develop quantitative skills –

You can do this through course work or practical experience working with biostatisticians and bioinformaticians on the design of protocols and the conduct of the research. Think critically about the literature you read. Take or audit courses from Health Research & Policy. Sign up for ICCR (Intensive Course in Clinical Research) offered each September or attend the Essentials in Clinical Research Course that happens each year; visit the Spectrum website for more information about these courses. Finally, work with statisticians on every project you do, spend time with them, and learn from them.

Large multi-center clinical trials are the gold standard but are incredibly daunting projects. What skills have you found particularly important in such trials, and what advice do you have for residents who would like to develop these skills?

KM: Large trials can be daunting, but they create incredible opportunities for housestaff, fellows, and new faculty. A typical 10,000-patient trial will have multiple committees – Data Safety Monitoring Committees that oversee safety, Adjudication Committees that review endpoint events, Safety Monitors that process adverse events – all of these are chances to see the operations of large trials and how the data are collected, curated, analyzed, and reported. Talk to faculty working on big projects – we have several housestaff and fellows working or observing on these committees through SCCR.

These large programs require a deep-rooted belief in team science and collaboration. You are the stewards of the data that thousands of researchers have helped collect from tens of thousands of people and for which a sponsor (the government or industry) has invested a tremendous amount of money. You have to create trusted relationships. I have a formula that I use to ground myself in how I make decisions and conduct my personal and professional life that helps me focus my energies and align my work with my family.

BIP = Balance, Integrity, Presence

You need to find what identifies you so that people know who you are and how you will lead and make decisions.

Any parting words of advice for our residents?

KM: I use the “Mahaffey Rules” to set expectations for students, interns, residents, and fellows when I round on the inpatient service. I now apply them to all aspects of my professional life (in no particular order).

1. Have fun

We all work too hard in medicine not to be having fun. If you aren't having fun, then find a new pathway in medicine or outside of medicine.

2. Provide excellent care

We are fortunate to have the ability to provide care and support for patients – it is a great responsibility but very rewarding. Do your best and ask when you don't know.

3. Learn something every day

Be curious. Think about what evidence we need to answer critical questions or support common decisions we make every day.

Papers and Presentations:

Congratulations to the following authors for their recent publications and presentations in the past year!

Third Year Residents:

1. **Grant E. Barber**, Hendler S, Okafor P, Limsui D, Limketkai B. Rising Incidence of Intestinal Infections in Inflammatory Bowel Disease: A Nationwide Analysis. *Inflammatory Bowel Diseases*. 2018. [PMID: 29722832]
2. **Grant E. Barber**, Rodrigues R, Ananthakrishnan AN. A comprehensive study of costs associated with recurrent *Clostridium difficile* infection. *Infection Control & Hospital Epidemiology*. 2017. [PMID: 27817758]
3. **Nicholas R. Degner**, Dutta NK, Bruiners N, Wang JY, Zimmerman MD, Tan S, Dartois V, Gennaro ML, Karakousis PC. Statin adjunctive therapy improves mortality in humans and microbiological outcomes in mice during tuberculosis treatment. *JCI Insight*. 2018. [Accepted, under revision]
4. **Nicholas R. Degner**, Wang JY, Karakousis P. The effect of chronic non-communicable diseases and dyslipidemias on tuberculosis treatment outcomes. *The Union World Conference on Lung Health*. The Hague, The Netherlands. 2018.
5. **Jay M. Patel**, Sandu A., Parizo J., Moayed Y., Fonarow G., Heidenreich PA. Validity of Performance and Outcome Measures for Heart Failure. *Circulation: Heart Failure*. 2018 [In Print]
6. **Ulysses S. Rosas**, Pan JY, Sundaram V, Su A, Ladabaum U. Adherence to Second Surveillance Guidelines Before and After the 2012 United States Multi-Society Task Force Guideline for Colonoscopy Surveillance After Polypectomy. *Digestive Disease Week*. Washington, D.C. 2018. [Poster Presentation]
7. **Sonia Shah**, Nishi T, Kobayashi Y, Barbato E, Tonino P, Juni P, Pijls NHJ, Bruyne BD, Fearon W. Sex Differences in Clinical Outcomes and Quality of Life in Patients with Non-Obstructive CAD (a FAME 2 Substudy). *American Heart Association Scientific Sessions*. Chicago, IL. 2018. [Poster Presentation]
8. **Sonia Shah**, Nguyen P, Le AK, Zhao C, Hoang J, Yasukawa LA, Weber SC, Nguyen MH. Gender differences on long-term outcomes in patients with dual chronic hepatitis B virus (HBV) and chronic hepatitis C virus (HCV) infection. *European Association for the Study of the Liver: International Liver Congress*. Amsterdam, Netherlands. 2017. [Poster Presentation]
9. **Sonia Shah**, Yong, C, Fearon, W, Heidenreich, P. Women Suffer Higher In-Hospital Mortality after Transcatheter Aortic Valve Replacement Despite Lower Burden of Comorbidities. *American Heart Association Scientific Sessions*. Anaheim, CA. 2017. [Poster Presentation]
10. **Sonia Shah**, Zimmermann FM, Johnson N, Nishi T, Kobayashi N, Colin NW, Allen B, Koo BW, Esposito G, Rioufol G, Park S, Oldroyd K, Barbato E, Pijls N, De Bruyne B, Fearon WF. Sex Differences in Adenosine-Free Coronary Pressure Indices: a CONTRAST Substudy. *American College of Cardiology 67th Annual Scientific Session*. Orlando, FL. 2018. [Poster Presentation]
11. **Sonia Shah**, Zimmermann FM, Johnson NJ, Nishi T, Kobayashi Y, Witt N, Berry C, Jeremias A, Koo B, Esposito G, Rioufol G, Park S, Oldroyd KG, Barbato E, Pijls N, De Bruyne B, Fearon WF. Sex Differences in Adenosine-Free Coronary Pressure Indices: a CONTRAST Substudy. *JACC Interventions*. 2018. [PMID: 30031722]
12. **Justin Slade**, Zhu L, Huwyler C, Aredo J, Kwong A, Chen M, Castaneda L, **Julia Chang**, **Ginger Yang**, Ruan A, **Rebecca Tisdale**, Almli M, **Teresa Liu**, Crichton D, Smith M, Hopkins J, Shieh L. Building a Better Discharge: Use of a Pre-Discharge Planner to Improve Patient Engagement in the Discharge Process. *American College of Physicians*. Walnut Creek, CA. 2017. [Poster Presentation]
13. Aredo J, Huwyler C, Chin J, **Justin Slade**, Shieh L. Introduction of a Standardized Letter Template to Improve Hospital Discharge Instructions. *Society of General Internal Medicine California-Hawaii Regional Meeting*. Stanford, CA. 2018. [Poster Presentation]
14. Kooreman NG, Kim Y, de Almeida PE, **Vittavat Termglinchan**, Diecke S, Shao NY, Wei TT, Yi H, Dey D, Nelakanti R, Brouwer TP, Paik DT, Sagiv-Barfi I, Han A, Quax PHA, Hamming JF, Levy R, Davis MM, Wu JC. Autologous iPSC-Based Vaccines Elicit Anti-tumor Responses In Vivo. *Cell Stem Cell*. 2018. [PMID: 29456158]
15. Lee J, Shao NY, Paik DT, Wu H, Guo H, **Vittavat Termglinchan**, Churko JM, Kim Y, Kitani T, Zhao MT, Zhang Y, Wilson KD, Karakikes I, Snyder MP, Wu JC. SETD7 Drives Cardiac Lineage Commitment through Stage-Specific Transcriptional Activation. *Cell Stem Cell*. 2018. [PMID: 29499155]
16. Ouyang D, **Rebecca Tisdale**, Ashley E, Chi J, Chen JH. Acetaminophen or Tylenol? A Retrospective Analysis of Medication Digital Communication Practices. *Journal of General Internal Medicine*. 2018 May 1:1-3. [PMID: 29717410]
17. Ouyang D, **Rebecca Tisdale**, Cheng P, Chi J, Chen JH, Ashley E. What's in a Name? Factors That Influence the Usage of Generic Versus Trade Names for Cardiac Medications Among Healthcare Providers. *Circulation: Cardiovascular Quality and Outcomes*. 2018 Aug;11(8):e004704.
18. Ouyang D, **Rebecca Tisdale**, Chi J, Chen JH, Ashley E. Medication Communication Practices Between Providers in Cardiology. *American College of Cardiology 67th Annual Meeting*. Orlando, FL. 2018. [Abstract]
19. **Rebecca Tisdale**, Heidenreich P. Applying Natural Language Processing of Echocardiography Reports to Describe Epidemiology of Heart Failure. *American College of Cardiology 67th Annual Meeting*. Orlando, FL. 2018. [Abstract]
20. **Rebecca Tisdale**, Eggers Z, Shieh L. EMR-based handoff tool improves completeness of internal medicine residents' handoffs. *BMJ Open Quality*. 2018 Jul 1;7(3):e000188.
21. **James E. Tooley**, Ouyang D, Hadley D, Froelicher V. Analysis Of QT Interval Correction Formulas In Atrial Fibrillation - A Big Data Approach. *American Heart Association Scientific Sessions*. Anaheim, CA. 2017. [Abstract]
22. **James E. Tooley**, Sceats LE, Bohl, DD, Read B, Kin C. Frequency and timing of short-term complications following abdominoperineal resection. *Journal of Surgical Research*. June 9 2018.

23. Sceats LE, **James E. Tooley**, Bohl DD, Read B, Kin C. Frequency and timing of short-term complications following abdominoperineal resection. 13th Annual Academic Surgical Congress. Jacksonville, FL. 2018. [Abstract]
24. Stevenson M, Bell C, **James E. Tooley**, **Najeff Waseem**, Lorenz K, Plauth A, Zulman D. Yes We CAN: A Patient-Centered, Resident-Led Goals of Care Intervention for High-Risk Primary Care Patients. Society of General Internal Medicine California-Hawaii Regional Meeting. Stanford, CA. 2018. [Poster Presentation; 2nd Prize in Clinical Innovations]
25. Stevenson M, Bell C, **James E. Tooley**, **Najeff Waseem**, Lorenz K, Plauth A, Zulman D. Yes We CAN: A Patient-Centered, Resident-Led Goals of Care Intervention for High-Risk Primary Care Patients. Society of General Internal Medicine National Conference. Denver, CO. 2018. [Poster Presentation]
26. **Bo Wang**, **Ginger Yang**, Svec D, Shieh L. Rationale and design of the Evaluating Application of Rewards Limited but Iterated to Effect Response (EARLIER) trial: a randomized evaluation of modest monetary incentives to facilitate prompt patient discharge planning. Resident/Fellow Quality Improvement/Patient Safety Symposium. Stanford, CA. 2018. [Poster Presentation]

Second Year Residents:

1. Singal S, Li G, **Vineeta Agarwala**, Kaushik G, O'Connell C, Cobb AC, Caron T, Bourque D, Guria A, Frank S, Frampton G, Carson K, Abernethy AP, Miller VA. Identification of resistance mechanisms to EGFR treatment in the real world using a clinicogenomic database. Proceedings of the 109th Annual Meeting of the American Association for Cancer Research. Chicago, IL. 2018. [Abstract, Poster Presentation]
2. **Vineeta Agarwala**, Gossai A, Singal G, O'Connell C, Li G, Kao K, Bourque D, Feuchtbaum D, Cobb GA, Nunnally A, Frampton GM, Ali SM., Kramarz S, Trabucco SE, Abernethy AP. Use of cancer immunotherapies in the real-world in the setting of microsatellite instability. ASCO-SITC Clinical Immuno-Oncology Symposium. San Francisco, CA. 2018. [Poster Presentation]
3. Stevenson M, **Caitlin Bell**, Tooley J, Waseem N, Lorenz K, Plauth A, Zulman D. Yes We CAN: A Patient-Centered, Resident-Led Goals of Care Intervention for High-Risk Primary Care Patients. Society of General Internal Medicine California-Hawaii Regional Meeting. Stanford, CA. 2018. [Poster Presentation; 2nd Prize in Clinical Innovations]
4. Stevenson M, **Caitlin Bell**, Tooley J, Waseem N, Lorenz K, Plauth A, Zulman D. Yes We CAN: A Patient-Centered, Resident-Led Goals of Care Intervention for High-Risk Primary Care Patients. Society of General Internal Medicine National Conference. Denver, CO. 2018. [Poster Presentation]
5. **Thomas Y. Sun**, Niu X, Chakraborty A, Neal JW, Wakelee HA. Lengthy progression-free survival and intracranial activity of cabozantinib in patients with crizotinib and ceritinib-resistant ROS1-positive non-small-cell lung cancer. Journal of Thoracic Oncology. 2018. [In Press]
6. **Thomas Y. Sun**. To be guided by instinct. New England Journal of Medicine. 2018 [PMID: 30207908]

Recent Graduates:

1. **Alvin S. Chen**, Bent RE, Wheeler M, Knowles JW, Haddad F, Froelicher V, Ashley E, Perez MV. Large Q and S waves in lead III on the electrocardiogram distinguish patients with hypertrophic cardiomyopathy from athletes. Heart. 2018 [PMID: 29680808]
2. Duscha BD, Piner LW, Patel MP, Craig KP, Brady M, McGarrah RW, **Connie E. Chen**, Kraus WE. Effects of a 12-week mHealth program on peak VO2 and physical activity patterns after completing cardiac rehabilitation: A randomized controlled trial. American Heart Journal. 2018. [PMID: 29754647]
3. Mao AY, **Connie E. Chen**, Magana C, Barajas KC, Olayiwola JN. A Mobile Phone-Based Health Coaching Intervention for Weight Loss and Blood Pressure Reduction in a National Payer Population: A Retrospective Study. Journal of Medical Internal Research. 2017. [PMID: 28596147]
4. **Andrew Cluckey**, **Fahd N. Yunus**, **George C. Leef**, Askari M, Heidenreich P, Turakhia MP, Perino AC. Antiarrhythmic Drug Use and Success Rates after Catheter Ablation for Atrial Fibrillation: Findings from the SMASH-AF Meta-Analysis Study Cohort. American Heart Association Scientific Sessions. Anaheim, CA. 2017. [Poster Presentation]
5. **Andrew Cluckey**, Perino AC, Fan J, Askari M, Nasir J, Marcus GM, Baykaner T, Narayan SM, Wang PJ, Turakhia MP. Incidence of Urinary Tract Infection After Catheter Ablation of Atrial Fibrillation. American Heart Association Scientific Sessions. Anaheim, CA. 2017. [Poster Presentation]
6. Gheihman G, **Tomi Jun**, Young GJ, Liebman D, Sharma K, Brandes E, Ogur B, Hirsh DA. A review of longitudinal clinical programs in US medical schools. Medical Education Online. 2018. [PMID: 29542394]
7. Lee S, Valtis YK, **Tomi Jun**, Wang D, Zhang B, Chung EH, Yu A, Williams R, Cohen MJ. Measuring and improving student engagement in clinical training. Education for Primary Care. 2017. [PMID: 29224511]
8. **Tomi Jun**, Yu M, Tanaka Y, Nguyen MH. Performance of Wisteria floribunda agglutinin-positive Mac2-binding protein as an HCC biomarker in an ethnically diverse cohort of patients with chronic HBV and HCV. International Liver Congress. Paris, France. 2018. [Poster Presentation]
9. **Tomi Jun**, Hsu Y, Tanaka Y, Nguyen MH, Yu M. Using Wisteria floribunda agglutinin-positive Mac2-binding protein in combination with the FIB-4 index to predict significant liver fibrosis. International Liver Congress. Paris, France. 2018. [Poster Presentation]
10. **Tomi Jun**, **Henry Kwang**, Mou E, Berube C, Shah N, Kaimal R, Bentley J, Ahuja N, Shieh L, Hom J. Using Electronic Best Practice Alerts to Improve Thrombophilia Testing Based on ASH Choosing Wisely Guidelines. American Society of Hematology. Atlanta, GA. 2017. [Abstract]

11. **George C. Leef**, Perino AC, **Andrew Cluckey**, **Fahd N. Yunus**, Askari M, Turakhia MP. Effects of Study Design and Follow up Protocol on Reported Success Rates of Catheter Ablation for Paroxysmal Atrial Fibrillation: Findings from the SMASH-AF Meta-Analysis Study Cohort. American Heart Association Scientific Sessions. Anaheim, CA. 2017. [Poster Presentation]
12. **George C. Leef**, Fan J, Askari M, Perino AC, **Fahd N. Yunus**, **Andrew Cluckey**, Deshmukh A, Turakhia MP. NOAC Dosing in Patients with Atrial Fibrillation and Kidney Disease: Insights from the Veterans Health Administration TREAT-AF Study. American Heart Association Scientific Sessions. Anaheim, CA. 2017. [Poster Presentation]
13. Oliver CB, Perino AC, Fan J, Askari M, **George C. Leef**, Mahaffey KW, Turakhia MP. Site Variation and Trends for Antithrombotic Therapy in Patients with Atrial Fibrillation after Percutaneous Coronary Intervention in the VA System: Findings from the TREAT-AF Study. American Heart Association Scientific Sessions. Anaheim, CA. 2017. [Poster Presentation]
14. **George C. Leef**, Perino AC, **Andrew Cluckey**, **Fahd N. Yunus**, Askari M, Heidenreich PA, Narayan SM, Wang PJ, Turakhia MP. Geographic and Racial Representation and Reported Success Rates of Studies of Catheter Ablation for Atrial Fibrillation: Findings from the SMASH-AF Meta-Analysis Study Cohort. Journal of Cardiovascular Electrophysiology. 2018 [PMID: 29364570]
15. Baykaner T, Rogers AJ, Meckler G, Zaman J, **Rachita Navara**, Rodrigo M, Alhusseini M, Kowalewski C, Viswanathan M, Narayan S, Clopton P, Wang PJ, Heidenreich P. Clinical Implications of Ablation of Drivers for Atrial Fibrillation: A Systematic Review and Meta-Analysis. Circulation: Arrhythmia and Electrophysiology. 2018. [PMID: 29743170]
16. **Rachita Navara**, Kowalewski C, **George C. Leef**, Shenasa F, Meckler G, Baykaner T, Alhusseini M, Hossainy S, Joshi V, Rogers AJ et al. Investigating Mechanisms of Persistent Atrial Fibrillation: Are Local Sources Stable? American College of Physicians (ACP) 99th Annual Internal Medicine Scientific Meeting. New Orleans, LA. 2018. [Poster Presentation]
17. **Rachita Navara**, Kowalewski C, **George C. Leef**, Shenasa F, Meckler G, Baykaner T, Alhusseini M, Hossainy S, Joshi V, Rogers AJ et al. Investigating Mechanisms of Persistent Atrial Fibrillation: Are Local Sources Stable? Northern California American College of Physicians Scientific Meeting. Walnut Creek, CA. 2018. [Poster Presentation]
18. Parales RE, **Rachita Navara**, Gettys R, Huang JJ. Genome Sequence of Pseudomonas putida Strain ASAD, an Acetylsalicylic Acid-Degrading Bacterium. Genome Announcements. 2017. [PMID: 29025955]
19. Baykaner T, Zaman JAB, Rogers AJ, **Rachita Navara**, AlHusseini M, Borne RT, Park S, Wang PJ, Krummen DE, Sauer WH, Narayan SM. Spatial relationship of sites for atrial fibrillation drivers and atrial tachycardia in patients with both arrhythmias. International Journal of Cardiology. 2017. [PMID: 28733070]
20. **Rachita Navara**, **George C. Leef**, Shenasa F, Kowalewski C, Rogers AJ, Meckler G, Zaman J, Baykaner T, Park S, Turakhia T, Zei P, Viswanathan M, Wang P, Narayan S. Independent mapping methods reveal rotational activation near pulmonary veins where atrial fibrillation terminates before pulmonary vein isolation. Journal of Cardiovascular Electrophysiology. 2018. [PMID: 29377478]
21. **Matt Stevenson**. Land of Hope and Dreams: A Short Story. The Nocturnists Fall Reading, on Diversity and Identity in Medicine. San Francisco, CA. 2017.
22. **Matt Stevenson**, Bell C, Tooley J, Waseem N, Lorenz K, Plauth A, Zulman D. Yes We CAN: A Patient-Centered, Resident-Led Goals of Care Intervention for High-Risk Primary Care Patients. Society of General Internal Medicine California-Hawaii Regional Meeting. Stanford, CA. 2018. [Poster Presentation; 2nd Prize in Clinical Innovations]
23. **Matt Stevenson**, Bell C, Tooley J, Waseem N, Lorenz K, Plauth A, Zulman D. Yes We CAN: A Patient-Centered, Resident-Led Goals of Care Intervention for High-Risk Primary Care Patients. Society of General Internal Medicine National Conference. Denver, CO. 2018. [Poster Presentation]
24. Saygin C, Cassaday RD, Reizine N, **Ilana R. Yurkiewicz**, Liedtke M, Stock W, et al. Acute Lymphoblastic Leukemia: Biology, Cytogenetics, and Molecular Markers in Diagnosis and Prognosis. American Society of Hematology 59th Annual Meeting & Exposition. Atlanta, GA. 2017. [Poster Presentation]
25. **Ilana R. Yurkiewicz**, Ganjoo KN, Iagaru A. Anaplastic Thyroid Cancer With Extensive Skeletal Muscle Metastases on 18F-FDG PET/CT. Clinical Nuclear Medicine. 2018. [PMID: 29356736]
26. **Fahd N. Yunus**, **George C. Leef**, **Andrew Cluckey**, Askari M, Turakhia MP, Perino AC. Alternative Metrics by Systematic Review Inclusion Status of Studies of Catheter Ablation for Atrial Fibrillation: Findings from the SMASH-AF Meta-Analysis Study Cohort. American College of Cardiology 67th Annual Scientific Sessions. Orlando, FL. 2018. [Poster Presentation]
27. Slade J, **Lisa Zhu**, Huwyler C, Aredo J, Kwong A, Chen M, Castaneda L, Chang J, Yang G, Ruan A, Tisdale R, **Marta Almi**, Liu T, Crichton D, Smith M, Hopkins J, Shieh L. Building a Better Discharge: Use of a Pre-Discharge Planner to Improve Patient Engagement in the Discharge Process. American College of Physicians. Walnut Creek, CA. 2017. [Poster Presentation]

Methods, Materials, Mentors:

- Please see <http://lane.stanford.edu/classes-consult/laneclasses.html> for a list of **upcoming research courses offered by Lane Library**. Many of these classes are incredibly helpful, including advanced PubMed use, Data Visualization, SQL, Systematic Review Methodology, MATLAB, Introduction to R, and EndNote/Zotero/Mendeley among many others.
- Stanford Grant Writing Academy: <https://grantwriting.stanford.edu/> great resource with bootcamps, videos, and articles.

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 ar Moore7@stanford.edu.