

Stanford Medicine Residency Research Interest Peer Group Newsletter

Volume 2 Issue 2 | May 2018

Dear Colleagues,

Welcome to the Spring 2018 edition of our medicine residency research newsletter! The scholarly work done by our housestaff and the degree of collaboration is nothing short of *spectacular*. This initiative is aimed at both highlighting their exciting projects as well as informing trainees and recruits about the types of investigations being performed at Stanford. We define *research* comprehensively, as quality improvement, global health, outcomes research, medical education, clinical investigation, translational research, implementation science, qualitative studies, clinical trials, and device/service innovation all count.

To help spotlight our residency program's scholarly accomplishments, we will be holding the 1st Annual Stanford Internal Medicine Residency Research Poster Session on the evening of <u>Tuesday</u>, <u>June 12, 2018</u>, in the Stanford University School of Medicine Li Ka Shing Building. All are invited to submit your poster here: <u>https://tinyurl.com/ydyjoskq</u>. Participate, stop by, bask in the joy of stellar scholarship!

Resident Research Spotlight:

This quarter's research spotlight highlights R3, George Leef!

Tell us a little about yourself

<u>GL</u>: I'm a current third year resident going into cardiology fellowship at Johns Hopkins next year. Prior to Stanford, I was at the University of Pittsburgh for medical school.

Tell us about your current QI/research activities

<u>GL:</u> Since starting residency, I have been working with Dr. Mintu Turakhia on a large meta-analysis of atrial fibrillation ablation studies. Examining the effect of procedural technique on success rates was limited by significant heterogeneity in the data, so we pivoted the project to look more at sources of heterogeneity that might explain the huge spread of reported success rates for catheter-based AF ablation. I have also worked on a couple of projects with Dr. Sanjiv Narayan's translational arrhythmia group involving atrial mapping to tailor lesion sets in atrial fibrillation ablation.



Why Stanford?

<u>GL</u>: The main reason I picked Stanford was that is offers rigorous training, but is never harder on residents than it needs to be to accomplish the educational objectives. Residency is tough, and it should be, but it should be tough only in ways that will make the residents better physicians.

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

<u>GL:</u> Two main pieces of advice. First, start talking to people early. You probably won't be able to get much done during intern year, but it's good to get a project set up during intern year so you can make the most of your elective and research time during second and third years. Second, picking the right mentor is probably more important than picking the project. At this stage, you're building your basic research skills (study design, statistical analysis, computational modeling, etc.) that you can apply to any project down the road. Find a mentor who works in your general area of interest and who has a good track record of working with residents and getting projects to publication.

Papers and Presentations:

Congratulations to the following authors for their scholarly work in the past semester!

Third Year Residents:

- 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. <u>Heart</u>. 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. <u>American Heart Journal</u>. 2018.
- 3. Mao AY, **Connie E. Chen**, Magana C, Barajas KC, Olaylwola 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. <u>American Heart Association Scientific Sessions</u>. Anaheim, CA. 2017. [Poster Presentation]
- 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. <u>American Heart Association Scientific Sessions</u>. Anaheim, CA. 2017. [Poster Presentation]
- 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. <u>Medical Education Online</u>. 2018. [29542394]
- 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. <u>Education for Primary Care</u>. 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. <u>International Liver Congress</u>. 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]
- 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. <u>American Society of Hematology</u>. 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. <u>American Heart Association Scientific Sessions</u>. Anaheim, CA. 2017. [Poster Presentation]
- 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. <u>American Heart Association Scientific</u> <u>Sessions</u>. 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. <u>American Heart Association Scientific Sessions</u>. Anaheim, CA. 2017. [Poster Presentation]
- 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. <u>Circulation: Arrhythmia and Electrophysiology</u>. 2018.
- 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? <u>American College of Physicians (ACP) 99th Annual Internal Medicine</u> <u>Scientific Meeting</u>. New Orleans, LA. 2018. [Poster Presentation]
- 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? <u>Northern California American College of Physicians Scientific Meeting</u>. Walnut Creek, CA. 2018. [Poster Presentation]
- Parales RE, Rachita Navara, Gettys R, Huang JJ. Genome Sequence of Pseudomonas putida Strain ASAD, an Acetylsalicylic Acid-Degrading Bacterium. <u>Genome Announcements</u>. 2017. [PMID: 29025955]
- 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. <u>International Journal of Cardiology</u>. 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. <u>The Nocturnists Fall Reading, on</u> <u>Diversity and Identity in Medicine</u>. 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. <u>Society of General Internal Medicine California-Hawaii Regional Meeting</u>. 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. <u>Society of General Internal Medicine National Conference</u>. Denver, CO. 2018. [Poster Presentation]
- 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. <u>American Society of Hematology 59th Annual Meeting & Exposition</u>. 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. <u>Clinical Nuclear Medicine</u>. 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. <u>American College of</u> <u>Cardiology 67th Annual Scientific Sessions</u>. 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 Almli**, 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. <u>American College of Physicians</u>. Walnut Creek, CA. 2017. [Poster Presentation]

Second Year Residents:

 Grant E. Barber, Hendler S, Okafor P, Limsui D, Limketkai B. Rising Incidence of Intestinal Infections in Inflammatory Bowel Disease: A Nationwide Analysis. <u>Inflammatory Bowel Diseases</u>. 2018. [Accepted]

- Grant E. Barber, Rodrigues R, Ananthakrishnan AN. A comprehensive study of costs associated with recurrent Clostridium difficile infection. <u>Infection Control & Hospital Epidemiology</u>. 2017. [PMID: 27817758]
- 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. <u>European Association for the Study of the Liver: International Liver Congress</u>. Amsterdam, Netherlands. 2017.
- 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. <u>American</u> <u>College of Cardiology 67th Annual Scientific Session</u>. Orlando, FL. 2018.
- Sonia Shah, Yong, C, Fearon, W, Heidenreich, P. Women Suffer Higher In-Hospital Mortality after Transcatheter Aortic Valve Replacement Despite Lower Burden of Comorbidities. <u>American Heart</u> <u>Association Scientific Sessions</u>. Anaheim, CA. 2017.
- 6. 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]
- 7. Aredo J, Huwyler C, Chin J, **Justin Slade**, Shieh L. Introduction of a Standardized Letter Template to Improve Hospital Discharge Instructions. <u>Society of General Internal Medicine California-Hawaii</u> <u>Regional Meeting</u>. Stanford, CA. 2018. [Poster Presentation]
- 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. <u>Cell</u> <u>Stem Cell</u>. 2018. [PMID: 29456158]
- 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. <u>Cell Stem Cell</u>. 2018. [PMID: 29499155]
- Ouyang D, Rebecca Tisdale, Chi J, Chen JH, Ashley E. Medication Communication Practices Between Providers in Cardiology. <u>American College of Cardiology 67th Annual Meeting</u>. Orlando, FL. 2018. [Abstract]
- 11. **Rebecca Tisdale**, Heidenreich P. Applying Natural Language Processing of Echocardiography Reports to Describe Epidemiology of Heart Failure. <u>American College of Cardiology 67th Annual</u> <u>Meeting</u>. Orlando, FL. 2018. [Abstract]
- James E. Tooley, Ouyang D, Hadley D, Froelicher V. Analysis Of QT Interval Correction Formulas In Atrial Fibrillation - A Big Data Approach. <u>American Heart Association Scientific Sessions</u>. Anaheim, CA. 2017. [Abstract]
- Sceats LE, James E. Tooley, Bohl DD, Read B, Kin C. Frequency and timing of short-term complications following abdominoperineal resection. <u>13th Annual Academic Surgical Congress</u>. Jacksonville, FL. 2018. [Abstract]
- 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. <u>Society of General Internal Medicine California-Hawaii Regional Meeting</u>. Stanford, CA. 2018. [Poster Presentation; 2nd Prize in Clinical Innovations]
- 15. 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. <u>Society of General Internal Medicine National Conference</u>. Denver, CO. 2018. [Poster Presentation]
- 16. **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. <u>Resident/Fellow Quality</u> <u>Improvement/Patient Safety Symposium</u>. Stanford, CA. 2018. [Poster Presentation]

First Year Residents:

- 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. <u>Proceedings of the 109th Annual Meeting of the American Association for Cancer Research</u>. 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. <u>ASCO-SITC</u> <u>Clinical Immuno-Oncology Symposium</u>. San Francisco, CA. 2018. [Poster Presentation]
- 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. <u>Society of General Internal Medicine California-Hawaii Regional Meeting</u>. 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]

Recent Graduates:

- 1. Slade J. Zhu L, Huwyler C, Aredo J, Kwong A, Chen M, **Leon Castaneda**, Chang J, Yang G, **Alexandra Ruan**, Tisdale R, Almli M, 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. <u>American College of Physicians</u>. Walnut Creek, CA. 2017. [Poster Presentation]
- Andrew Y. Chang, Nabbaale J, Nalubwama H, Okello E, Ssinabulya I, Longenecker CT and Webel AR. "Motivations of Women in Uganda with Rheumatic Heart Disease: A Mixed Methods Study of Experiences in Stigma, Childbearing, Anticoagulation, and Contraception". <u>PLoS ONE</u>. 2018. [PMID: 29590159]
- Andrew Y. Chang, Askari M, Fan J, Heidenreich PA, Ho PM, Mahaffey KW, Alexander C. Perino, Turakhia MP. Association of Healthcare Plan With Medication Prescriptions for the Treatment of Atrial Fibrillation. <u>Heart Rhythm Society Annual Meeting</u>. Boston, MA. 2018. [Poster Presentation]
- 4. Sehested T, Bjerre J, Andrew Y. Chang, Ku S, Jahansouz A, Owens DK, Hlatky MA, Goldhaber-Fiebert JD. Cost-effectiveness of canakinumab to prevent recurrent myocardial infarction. <u>European</u> <u>Society of Cardiology Congress</u>. Munich, Germany. 2018. [Poster Presentation]
- Andrew Y. Chang, Askari FM, Fan J, Heidenreich PA, Ho PM, Mahaffey KW, Alexander C. Perino, Turakhia MP. Impact of Primary Care Physician Gatekeeping on Medication Prescriptions for Atrial Fibrillation. <u>Association for Clinical and Translational Science Meeting</u>. Washington, D.C. 2018. [Oral Presentation].
- 6. Aredo J, Huwyler C, **Jocelyn Chin**, Slade J, Shieh L. Introduction of a Standardized Letter Template to Improve Hospital Discharge Instructions. <u>Society of General Internal Medicine California-Hawaii</u> <u>Regional Meeting</u>. Stanford, CA. 2018. [Poster Presentation]
- Jun T, Kwang H, Eric Mou, 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. <u>American Society of Hematology</u>. Atlanta, GA. 2017. [Abstract]

- David Ouyang, Tisdale R, Chi J, Chen JH, Ashley E. Medication Communication Practices Between Providers in Cardiology. <u>American College of Cardiology 67th Annual Meeting</u>. Orlando, FL. 2018. [Abstract]
- Tooley J, David Ouyang, Hadley D, Froelicher V. Analysis Of QT Interval Correction Formulas In Atrial Fibrillation - A Big Data Approach. <u>American Heart Association Scientific Sessions</u>. Anaheim, CA. 2017. [Abstract]
- Yunus FN, Leef GC, Cluckey A, Askari M, Turakhia MP, Alexander C. Perino. Alternative Metrics by Systematic Review Inclusion Status of Studies of Catheter Ablation for Atrial Fibrillation: Findings from the SMASH-AF Meta-Analysis Study Cohort. <u>American College of Cardiology</u> <u>Scientific Sessions</u>. Orlando, FL. 2018. [Poster Presentation]
- 11. Cluckey A, Yunus FN, Leef GC, Askari M, Heidenreich P, Turakhia MP, **Alexander C. Perino**. Antiarrhythmic Drug Use and Success Rates after Catheter Ablation for Atrial Fibrillation: Findings from the SMASH-AF Meta-Analysis Study Cohort. <u>American Heart Association Scientific Sessions</u>. Anaheim, CA. 2017. [Poster Presentation]
- Cluckey A, Alexander C. Perino, 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. <u>American Heart Association Scientific Sessions</u>. Anaheim, CA. 2017. [Poster Presentation]
- 13. Leef GC, **Alexander C. Perino**, Cluckey A, Yunus FN, 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. <u>American Heart Association Scientific Sessions</u>. Anaheim, CA. 2017. [Poster Presentation]
- 14. Oliver CB, Alexander C. Perino, Fan J, Askari M, Leef GC, 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. <u>American Heart Association Scientific Sessions</u>. Anaheim, CA. 2017. [Poster Presentation]
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- Baykaner T, Zaman JAB, Albert J. Rogers, Navara R, 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. <u>International Journal of Cardiology</u>. 2017. [PMID: 28733070]
- Navara R, Leef GC, Shenasa F, Kowalewski C, Albert J. Rogers, 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]
- Navara R, Kowalewski C, Leef GC, Shenasa F, Meckler G, Baykaner T, Alhusseini M, Hossainy S, Joshi V, Albert J. Rogers et al. Investigating Mechanisms of Persistent Atrial Fibrillation: Are Local Sources Stable? <u>American College of Physicians (ACP) 99th Annual Internal Medicine</u> <u>Scientific Meeting</u>. New Orleans, LA. 2018. [Poster Presentation]
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Events, Materials, Mentors:

• Please see <u>http://lane.stanford.edu/classes-consult/laneclasses.html</u> for a list of <u>upcoming research</u> <u>courses offered by Lane Library</u>. 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. Highly recommended!

If you have academic or innovation activities that you'd like to have highlighted in the newsletter (or know of work other residents or recent graduates have taken part in) please e-mail us at <u>bwang18@stanford.edu</u>. <u>These include publications of any authorship status (first, second, third, etc.)</u>, presentations, QI projects, patents, etc. **If your research was not recognized this edition, please e-mail us, so we can include it next** <u>time</u>. Also, feel free to send us any interesting courses, lectures, or resources you find out about on campus. If you are interested in helping out with the research interest peer group or the newsletter, please contact us at the e-mail address listed above. Thanks for reading!

Best,

Stanford Internal Medicine Research Interest Peer Group Steering Committee Co-Leads: Bo Wang, Jimmy Tooley Advisory Committee: Andy Chang, Linda Geng, Ashish Sarraju

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) please make sure to email us at <u>bwang18@stanford.edu</u>. If you are interested in helping out with the research interest peer group or the newsletter, please contact us at the e-mail listed above.

"To have striven, to have made the effort, to have been true to certain ideals – this alone is worth the struggle." – Sir William Osler