

CURRICULUM VITAE

Date of Revision: 7/17/20

Name: Tariq Ahmad, MD, MPH, FACC, FHFA

Position: Assistant Professor, Department of Internal Medicine, Section of Cardiovascular Medicine

Term: July 1, 2018 – June 30, 2021

School: Yale University School of Medicine

Education:

B.A. New York University (Applied Mathematics and Biology) 2001

M.D. Stony Brook School of Medicine 2006

M.P.H. Harvard School of Public Health 2010

Career/Academic Appointments:

7/2006-6/2007 Intern, Internal Medicine, Brigham and Women's Hospital, Boston, MA

7/2007-6/2010 Assistant and Senior Resident, Internal Medicine, Brigham and Women's Hospital, Boston, MA (*Hemi-Doc Program: Research/Clinical Over 3rd and 4th Year*)

7/2008-6/2010 Postdoctoral Fellow in Preventive Medicine, Brigham and Women' Hospital, Boston, MA

7/2010-6/2012 Cardiology Fellow, Division of Cardiology, Duke University Medical Center, Durham, NC

7/2012-6/2014 Cardiology Research Fellow, Duke Clinical Research Institute, Durham, NC

7/2014-6/2015 Heart Failure and Transplant Fellow, Division of Cardiology, Duke University Medical Center, Durham, NC

8/2015-current Assistant Professor, Section of Cardiovascular Medicine, Yale University School of Medicine, New Haven, CT

Administrative Positions:

2017-present Director, Cardiovascular Grand Rounds, Yale University School of Medicine

2019-present Representative, Cardiology, Dean's Faculty Advisory Council, Yale School of Medicine

Board Certification:

2011 American Board of Internal Medicine, Internal Medicine

2016 American Board of Internal Medicine, Cardiovascular Disease

2018 American Board of Internal Medicine, Advanced Heart Failure

Professional Honors & Recognition

2019 Fellow, Heart Failure Society of America

2018 ACC Expert Consensus Guidelines Committee

2018 Elected to ACC Leadership Cohort

2017 Fellow, American College of Cardiology

2017 Finalist, Young Investigator Award, ACC

2016 HFSA-St. Jude Research Award

2016 Young Author Achievement Award, Journal of American College of Cardiology

2013 Finalist, Northwestern Young Investigator's Forum

2013 ACC Cardiosource Up and Coming Cardiology Fellow

2013 JACC Heart Failure Fellow and CME Editor

2013	Best Fellow in Training Poster, American College of Cardiology Meeting
2012	NIH Loan Repayment Program Recipient
2012	Daland Fellowship for Clinical Investigation
2009	Marcy Speer Scholarship for Training in Genetic Analysis
2007	Editor, Brigham and Women's Internal Medicine Guide 2007
2006	Merck Award for Top Medical School Graduate
2006	Junior AOA Medical Honor Society (Top 2% of Medical Students)
2003	AHA Summer Research Fellowship
2000	Cold Spring Harbor Summer Research Fellowship

Selected Invited Speaking Engagements, Presentations, Symposia & Workshops:

1. Physical Activity Modifies the Effect of LPL, LIPC and CETP polymorphisms on HDL-C Levels and the Risk of Myocardial Infarction in Caucasian Women. Oral Presentation. 2009. AHA
2. Does Lifestyle Modify the Genetic Risk for Obesity? An Association Study of Lifestyle Interaction with Fat Mass and Obesity-Associated Genotype in US Women. Oral Presentation. 2009. AHA
3. The Fat-Mass and Obesity-Associated (FTO) Gene, Physical Activity, and Risk of Incident Cardiovascular Events in Caucasian Women. Presented as an oral abstract presentation at NHLBI Trainee Session on Epidemiology, Biostatistics and Prevention. 2010
4. Elevated Galectin-3 Levels and Prediction of Mode of Death in Heart Failure: Insights from the HF-ACTION Study. Oral Session. 2012 AHA
5. Relationship Between Exercise Training and Changes in Biomarkers of Myocardial Stress, Injury and Inflammation in Patients with Chronic Heart Failure. Best Poster Award. 2013 ACC
6. A Cacophany of Wedges, Which One Tells the Truth? Oral Session. 2013 ACC
7. Effects of Left Ventricular Assist Device Placement on Biomarkers of Cardiovascular Stress, Fibrosis, Fluid Homeostasis, Mitochondrial Function, Metabolism, and Endothelial Dysfunction. Oral Session. Nov 2013. AHA
8. Cardiac Transplantation Unmasks Profound Muscle Weakness and Leads to Diagnosis of a Rare Cardiomyopathy. Oral Session. Nov 2013. AHA
9. Incremental Prognostic Utility by Cost and Complexity in Chronic Heart Failure. Oral Session. Nov 2013. AHA
10. The History of Heart Failure and What It Can Teach Us About the Future. Cardiology Grand Rounds, Duke Clinical Research Institute. April 2014
11. Biomarkers and LVADs. Invited Oral Session. HFSA September 2015
12. Heart Failure Devices and Biomarkers. Invited Oral Session. HFSA September 2015
13. Natriuretic Peptides in Heart Failure. Invited Oral Session. HFSA 2015
14. Phenotyping Heart Failure with Reduced Systolic Function. Invited Oral Session. AHA 2015
15. Machine Learning in Systolic Heart Failure. Oral Session. ACC 2017
16. Biomarkers in Heart Failure. Invited Plenary Session. AAHFN. 2017
17. Characteristics of Heart Failure with Recovered Ejection Fraction. Invited Oral Session. HFSA 2017
18. Advanced Analytics in Clinical Trials. CVCT. 2017
19. Cardiorenal Syndrome—Moderator. HFSA. 2018
20. E-Health and Clinical Trials. FDA/INOVA Symposium. 2018
21. Management of LVAD Patients. INOVA Acute Heart Failure Symposium. 2018
22. Defining Heart Failure and Why it Matters. Sentara. Grand Rounds. 2019
23. Management of Cardio-Renal Syndrome, ACC. 2019
24. Using Digital Tools to Do Clinical Trials. HF Collaboratory. 2019.
25. Management of LVAD Patients. Treatment of Elderly with Heart Failure. INOVA Acute Heart Failure Symposium. 2019
26. Use of the EHR to do Clinical Trials. AHA. 2019.

Professional Services

Journal Service:

Editorial Board

American Heart Journal

American Journal of Cardiology

JACC: Heart Failure

ACC Committees

Member of the Task Force on Expert Consensus Decision Pathways

Writing Committee for Acute Heart Failure Pathway

CME and Media Editor

JACC: Heart Failure

Reviewer

Reviewer for *The Lancet*, *Journal of American College of Cardiology*, *Circulation*, *European Heart Journal*, *Journal of Health and Lung Transplant*, *JACC: Heart Failure*, *Journal of the American Heart Association*, *Circulation: Heart Failure*, *Journal of Cardiac Failure*, *American Heart Journal*, *American Journal of Cardiology*, *PLOS Medicine*, *Journal of Cardiovascular Translational Research*, *Journal of the American Medical Association: Cardiology*.

Professional Service for Professional Organizations:

Early Career Committee, Member, American College of Cardiology.

Early Career Committee, Member, Heart Failure Society of America

Selected Publications:

Full Bibliography is Available as Follows (N=105):

<https://www.ncbi.nlm.nih.gov/myncbi/1to--N9bRxq5l/bibliography/public/>

1. Ali G. Gharavi, **Tariq Ahmad**, Robert D. Wong, Roozbeh Hooshyar, Janene Vaughn, Sarah Oller, Rachelle Frankel, Leslie A. Bruggeman, Vivette D. D'Agati, Paul E. Klotman, Richard P. Lifton. Mapping a locus for susceptibility to HIV-1-associated nephropathy to mouse chromosome 3. *Proceedings of the National Academy of Sciences*. 2004 Feb 24;101(8):2488-93
2. **Tariq Ahmad**, Samia Mora. Providing patients with global cardiovascular risk information: is knowledge power? *Archives of Internal Medicine*. 2010 Feb 8;170(3):227-8
3. **Tariq Ahmad**. A Piece of My Mind: Nana's Words. *JAMA*. 2010 Apr 28;303(16):157-8
4. **Tariq Ahmad**, Daniel I. Chasman, Samia Mora, Paré G, Nancy R. Cook, Julie E. Buring, Paul M. Ridker, Lee IM. The fat-mass and obesity-associated (FTO) gene, physical activity, and risk of incident cardiovascular events in white women. *American Heart Journal*. 2010 Dec;160(6):1163-9
5. **Tariq Ahmad**, Daniel I. Chasman, Julie E. Buring, I-Min Lee, Paul M Ridker, Brenden M. Everett. Physical activity modifies the effect of LPL, LIPC, and CETP polymorphisms on HDL-C levels and the risk of myocardial infarction in women of European ancestry. *Circulation Cardiovascular Genetics*. 2011 Feb 1;4(1):74-80
6. **Tariq Ahmad**, I-Min Lee, Guillaume Paré, Daniel I. Chasman, Lynda Rose, Paul M. Ridker, Samia Mora. Lifestyle interaction with fat mass and obesity-associated (FTO) genotype and risk of obesity in apparently healthy U.S. women. *Diabetes Care*. 2011 Mar;34(3):675-80
7. **Tariq Ahmad**, Deepak Voora, Richard Becker. The Pharmacogenetics of Anti-Platelet Agents: Towards Personalized Therapies? *Nature Cardiology Reviews*. 2011 Aug 9;8(10):560-71
8. **Tariq Ahmad**, Robert Mentz, G. Michael Felker, Carmelo A. Milano, Joseph G. Rogers, Chetan B. Patel. Recurrence of Heart Failure Symptoms after LVAD Placement due to Bradycardia Induced Inflow Obstruction. *Journal of Heart and Lung Transplantation*. 2012 Jan;31(1):111-3

9. Tuomas O. Kilpeläinen, Lu Qi, Soren Brage, Stephen J. Sharp, Emily Sonestedt, Ellen Demerath, **Tariq Ahmad**, Samia Mora, Marika Kaakinen, Camilla Helene Sandholt, Christina Holzapfel, Christine S. Autenrieth, Elina Hyppönen, Stéphane Cauchi, Meian He, Zoltan Kutalik, Meena Kumari, Alena Stančáková, Karina Meidtner, Beverley Balkau, Jonathan T. Tan, Massimo Mangino, Günther Silbernagel, Stavroula Kanoni, Mary F. Feitosa, Soren Snitker, Jonatan R. Ruiz, Jeffery Metter, Maria Teresa Martinez Larrad, Mustafa Atalay, Maarit Hakanen, Najaf Amin, Christine Cavalcanti-Proença, Anders Grøntved, Göran Hallmans, John-Olov Jansson, Johanna Kuusisto, Mika Kähönen, Pamela L. Lutsey, John J. Nolan, Luigi Palla, Oluf Pedersen, Louis Pérusse, Frida Renström, Robert A. Scott, Dmitry Shungin, Ulla Sovio, Tuija H. Tammelin, Tapani Rönnema, Timo A. Lakka, Matti Uusitupa, Manuel Serrano Rio, Luigi Ferrucci, Claude Bouchard, Aline Meirhaeghe, Mao Fu, Mark Walker, Ingrid B. Borecki, George V. Dedoussis, Andreas Fritsche, Claes Ohlsson, Michael Boehnke, Stefania Bandinelli, Cornelia M. van Duijn, Shah Ebrahim, Debbie A. Lawlor, Vilmundur Gudnason, Tamara B. Harris, Thorkild I. A. Sørensen, Karen L. Mohlke, Albert Hofman, André G. Uitterlinden, Jaakko Tuomilehto, Terho Lehtimäki, Olli Raitakari, Bo Isomaa, Pål R. Njølstad, Jose C. Florez, Simin Liu, Andy Ness, Timothy D. Spector, E. Shyong Tai, Philippe Froguel, Heiner Boeing, Markku Laakso, Michael Marmot, Sven Bergmann, Chris Power, Kay-Tee Khaw, Daniel Chasman, Paul Ridker, Torben Hansen, Keri L. Monda, Thomas Illig, Marjo-Riitta Järvelin, Nicholas J. Wareham, Frank B. Hu, Leif C. Groop, Marju Orho-Melander, Ulf Ekelund, Paul W. Franks, Ruth J. F. Loos. Physical activity attenuates the influence of FTO variants on obesity risk; a meta-analysis of 218,166 adults and 19,268 children. *PLOS Medicine*. 2011. Nov;8(11):e1001116
10. **Tariq Ahmad**, Mona Fiuzat, Michael Felker, Christopher O'Connor. Novel Biomarkers in the Assessment and Treatment of Heart Failure. *Nature Cardiology Reviews*. 2012; 9(6)347-59
11. **Tariq Ahmad**, Chetan B. Patel, Carmelo A. Milano, Joseph G. Rogers. When the heart runs out of heartbeats: treatment options for refractory end-stage heart failure. *Circulation*. 2012 Jun 12;125(23):2948-55
12. **Tariq Ahmad**, G. Michael Felker. ACP Journal Club: Warfarin and Aspirin did not differ for death or stroke in heart failure and sinus rhythm. *Annals of Internal Medicine*. 2012 Aug 21;157(4): JC2-7
13. **Tariq Ahmad** and G. Michael Felker. Subcutaneous BNP for Treatment of Heart Failure: A Dying Therapy Reborn? *Journal of the American College of Cardiology*. 2012 Dec 4;60(22):2313-5
14. G. Michael Felker, Mona Fiuzat, Vivian Thompson, Linda Shaw, Kirkwood Adams, David Whellan, Mark Donahue, **Tariq Ahmad**, Dalane Kitzman, Ileana Pina, Faiez Zannad, William Kraus, Christopher O'Connor Soluble ST2 in Ambulatory Patients with Heart Failure: Association with Functional Capacity and Long-Term Outcomes. *Circulation: Heart Failure*. 2013 Oct 8
15. **Tariq Ahmad**, G. Michael Felker. Galectin-3 Levels in Heart Failure: More Answers or More Questions? *Journal of the American Heart Association*. 2012 Oct;1(5)
16. Christopher O'Connor, **Tariq Ahmad**. Can Exercise Prevent Heart Failure? *Journal of the American College of Cardiology*. 2012 Dec 18;60(24):2548-9
17. **Tariq Ahmad**, Mona Fiuzat, Ben Neely, Megan Neely, William E. Kraus, Dalane W. Kitzman, David J. Whellan, Mark Donahue, Faiez Zannad, Ileana L. Piña, Kirkwood Adams, Christopher M. O'Connor, G. Michael Felker. Biomarkers of Myocardial Stretch and Fibrosis and Mode of Death in Chronic Heart Failure. *JACC: Heart Failure*. 2014 Jun;2(3):260-8
18. G. Michael Felker, **Tariq Ahmad**. Natriuretic Peptides and Primary Prevention: The New World? *Journal of the American College of Cardiology*. 2013 Oct 8;62(15):1373-5
19. **Tariq Ahmad**, Christopher M. O'Connor. Using Biomarkers to Guide Therapy in Heart Failure. *Clinical Pharmacology and Therapeutics*. 2013 Oct;94(4):468-79
20. **Tariq Ahmad**, Mona Fiuzat, Michael Pencina, Nancy Geller, Faiez Zannad, John G. F. Cleland, James Snider, Stephan Blankenberg, Kirkwood Adams, Rita Redberg, Jae Kim, Alice Mascette,

- Robert Mentz, Christopher M. O'Connor, G. Michael Felker, James L. Januzzi. Charting a Roadmap for Heart Failure Biomarker Studies. *JACC: Heart Failure*. 2014 Jun 5. pii: S2213-1779(14)111-5
21. Robert J. Mentz, G. Michael Felker, **Tariq Ahmad**, W. Frank Peacock, Bertram Pitt Mona Fiuzat, Aldo P. Maggioni, Mihai Gheorghiade, Yuki Ando, Stuart Pocock, Faiez Zannad, Christopher M. O'Connor. Learning from Recent Trials and Shaping the Future of Acute Heart Failure Trials. *American Heart Journal*. 2013 Oct;166(4):629-35
 22. **Tariq Ahmad** and Richard Becker. The unmet need for philanthropic funding of early career cardiovascular investigators. *Journal of Thrombosis and Thrombolysis*. 2014 May;37(4):527-31
 23. Mona Fiuzat Phillip J. Schulte, G. Michael Felker, **Tariq Ahmad**, Megan Neely, Kirkwood F. Adams, Mark P. Donahue, William E. Kraus, Ileana L. Piña, David J. Whellan, Christopher M. O'Connor. Relationship between Galectin-3 Levels and Aldosterone Antagonist Use in Heart Failure: Analysis from the HF-ACTION Study. *Journal of Cardiac Failure*. 2014 Jan;20(1):38-44
 24. **Tariq Ahmad**, Mona Fiuzat, Ben Neely, Megan Neely, William E. Kraus, Dalane W. Kitzman, David J. Whellan, Mark Donahue, Faiez Zannad, Ileana L. Piña, Kirkwood Adams, Christopher M. O'Connor, G. Michael Felker. Effects of Exercise on Cardiovascular Biomarkers in Patients with Chronic Heart Failure. *American Heart Journal*, 2014 Feb;167(2):193-202
 25. **Tariq Ahmad**, Teresa Wang, Emily O'Brien, Marc Samsky, G Michael Felker, Adrian F. Hernandez, Joseph G. Rogers, Carmello Milano, James L. Januzzi, Dawn Bowles, Svati H. Shah, Chetan B Patel. Effects of Left Ventricular Assist Device Placement on Biomarkers of Cardiovascular Stress, Fibrosis, Inflammation, Fluid Homeostasis, and Renal Function. *JACC-Heart Failure*. 2015 Jan;3(1):30-9
 26. Michael Felker, **Tariq Ahmad**, Kevin Anstrom, Kirkwood Adams, Lawton Cooper, Justin Ezekowitz, Mona Fiuzat, Nancy Houston-Miller, James Januzzi, Daniel Mark, Patrice Nikens, , Gayle Paynter, Ileana Piña, David Whellan, Christopher O'Connor. Rationale and Design for the Guiding Evidence Based Therapy Using Biomarker Intensified Treatment in HF (GUIDE-IT) Study. *JACC-Heart Failure*. 2014 Oct;2(5):457-65
 27. Carl Tong, **Tariq Ahmad**, Evan Brittain, Jared Bunch, Julie Damp, Todd Dardas, Amalea Hijar, Joseph A. Hill, Anthony Hilliard, Steven Houser, Eiman Jahangir, Andrew Kates, Darlene Kim, Brian Lindman, John J. Ryan, Anne K. Rzeszut, Chittur Sivaram, Anne Valente, Andrew Freeman. Challenges Facing Early Career Academic Cardiologists. *Journal of the American College of Cardiology*. 2014 Mar 21. S0735-1097(14)01659-3
 28. **Tariq Ahmad**, Michael Pencina, Phillip Schulte, Emily O'Brien, David Whellan, Ileana Piña, Dalane Kitzman, Kerry Lee, Christopher O'Connor, Michael Felker. Clinical Implications of Chronic Heart Failure Phenotypes Defined by Cluster Analysis. *Journal of the American College of Cardiology*. 2014 Oct 28;64(17):1765-74
 29. **Tariq Ahmad**, Matthew Roe. Acute coronary syndromes: Treatment for low-risk patients with STEMI-challenges remain. *Nature Reviews Cardiology*. 2014 Jun 24
 30. **Tariq Ahmad**, Philip Yin, Jeffery Saffitz, Paul J. Pockros, Jacob Lalezari, Mitchell Shiffman, Bradley Freilich, Joann Zamparo, Kyle Brown, Dessislava Dimitrova, Monica Kumar, Doug Manion, Margo Heath-Chiozzi, Robert Wolf, Eric Hughes, Andrew J. Muir, Adrian F. Hernandez. Cardiac Dysfunction Associated with a Nucleotide Polymerase Inhibitor for Treatment of Hepatitis C. *Hepatology*. 2014 Sep 24
 31. Kishan Parikh, **Tariq Ahmad**, Mona Fiuzat. Potential Applications of Pharmacogenomics to Heart Failure Therapies. *Heart Failure Clinics*. 2014 Oct;10(4):599-606
 32. Robert McGarrah, **Tariq Ahmad**, Dwight Koeberl, Chetan Patel The Heart is Just a Muscle: A Unifying Diagnosis for Cardiac and Peripheral Muscle Weakness. *Circulation*. 2015 Mar 10;131(10):914-22
 33. Mentz RJ, Greiner MA, DeVore AD, Dunlay SM, Choudhary G, **Tariq Ahmad**, Khazanie P, Randolph TC, Griswold ME, Eapen ZJ, O'Brien EC, Thomas KL, Curtis LH, Hernandez AF.

- Ventricular Conduction and Long-Term Heart Failure Outcomes and Mortality in African Americans: Insights From the Jackson Heart Study. *Circulation Heart Failure*. 2014 Dec 30
34. **Tariq Ahmad**, O'Brien EC, Schulte PJ, Stevens SR, Fiuzat M, Kitzman DW, Adams KF, Kraus WE, Piña IL, Donahue MP, Zannad F, Whellan DJ, O'Connor C, Felker GM. Evaluation of the Incremental Prognostic Utility of Increasingly Complex Testing in Chronic Heart Failure. *Circulation Heart Failure*. 2015 Jul;8(4):709-16
 35. **Tariq Ahmad** and Javed Butler. Disrupting Virchow's triad: can factor X inhibition reduce risk of adverse outcomes in patients with Ischaemic cardiomyopathy? *European Journal of Heart Failure*. 2015 Jul;17(7):647-51
 36. **Tariq Ahmad** and GM Felker. Reply: applying cluster analysis to data of previously published chronic heart failure trials: systems biology and clinical phenotypes of heart failure syndrome. *Journal of American College of Cardiology*. 2015 Mar 31;65(12):1270-1
 37. Fordyce CB, Roe MT, **Tariq Ahmad**, Libby P, Borer JS, Hiatt WR, Bristow MR, Packer M, Wasserman SM, Braunstein N, Pitt B, DeMets DL, Cooper-Arnold K, Armstrong PW, Berkowitz SD, Scott R, Prats J, Galis ZS, Stockbridge N, Peterson ED, Califf RM. Cardiovascular drug development: is it dead or just hibernating? *Journal of American College of Cardiology*. 2015 Apr 21;65(15):1567-82
 38. **Tariq Ahmad**. Wherein lies the balance between caring and detachment? *Journal of American College of Cardiology*. 2015 Apr 14;65(14):1481-2
 39. **Tariq Ahmad** and Christopher O'Connor. Sodium and Chloride in Heart Failure: It Takes Two to Tango. *Journal of American College of Cardiology* 2015 Aug 11;66(6):667-9
 40. GM Felker and **Tariq Ahmad**. Reclassifying heart failure: time for disruptive innovation? *European Journal of Heart Failure*. 2015 Sep;17(9):879-80
 41. Parul Gandhi, Jeffery Testani, **Tariq Ahmad**. The Current and Potential Clinical Relevance of Heart Failure Biomarkers. *Current Heart Failure Reports*. 2015 Oct;12(5):318-2
 42. **Tariq Ahmad**, Jacob P. Kelly, Robert W. McGarrah, Anne S. Hellkamp, Mona Fiuzat, Jeffrey M. Testani, Teresa S. Wang, Amanda Verma, Marc D. Samsky, Mark P. Donahue, Olga R. Ilkayeva, Dawn E. Bowles, Chetan B. Patel, Carmelo A. Milano, Joseph G. Rogers, G. Michael Felker, Christopher M. O'Connor, Svati H. Shah, William E. Kraus. Long-Chain Acylcarnitine Metabolites are Associated with Adverse Outcomes and Reversible with Mechanical Circulatory Support in Systolic Heart Failure. *Journal of American College of Cardiology*. 2016 Jan 26;67(3):291-9
 43. Parikh KS, Rajagopal S, Arges K, **Tariq Ahmad**, Sivak J, Kaul P, Shah SH, Tapson V, Velazquez EJ, Douglas PS, Samad Z. Use of outcome measures in pulmonary hypertension clinical trials. *Am Heart J*. 2015 Sep;170(3):419-429
 44. **Tariq Ahmad**, Nihar Desai, Daniel Jacoby, G Michael Felker, Joseph Rogers, Mona Fiuzat, Christopher O'Connor, Chetan Patel. Clinical Implications of Cluster Analysis-Based Classification of Acute Decompensated Heart Failure and Correlation with Bedside Hemodynamic Profiles. *PLoS One*. 2016 Feb 3;11(2)
 45. Jennifer Hanberg, Krishna Sury, F. Perry Wilson, Meredith Brisco, **Tariq Ahmad**, Jozine ter Maaten, J. Samuel Broughton, Mahlet Assefa, W. H. Wilson Tang, Chirag Parikh, Jeffrey Testani. Reduced Cardiac Index is not the Dominant Driver of Renal Dysfunction in Heart Failure. *Journal of the American College of Cardiology* 2016 May 17;67(19):2199-208
 46. Ronac Mamtani, James Lewis, Frank Scott, **Tariq Ahmad**, David Goldberg, Jashodeep Datta, Yu-Xiao Yang, Ben Boursi. Disentangling the Association between Statins, Cholesterol, and Colorectal Cancer: A Nested Case-Control Study. *PLoS Medicine*. 2016 Apr 26;13(4)
 47. **Tariq Ahmad**, Jeffrey Testani, Nihar Desai. Can Big Data Simplify the Complexity of Modern Medicine? Prediction of Right Ventricular Failure after LVAD Support as a Test Case. *JACC Heart Failure*, 2016 Sep;4(9):722-5

48. Hanberg JS, Rao V, Ter Maaten JM, Laur O, Brisco MA, Perry Wilson F, Grodin JL, Assefa M, Samuel Broughton J, Planavsky NJ, **Tariq Ahmad**, Bellumkonda L, Tang WH1, Parikh CR, Testani JM. Hypochloremia and Diuretic Resistance in Heart Failure: Mechanistic Insights. *Circulation: Heart Fail.* 2016 Aug;9(8)
49. Teresa Wang, Emily O'Brien, Joseph G. Rogers, Daniel L. Jacoby, Michael E Chen, Jeffrey M. Testani, Dawn E. Bowles, Carmelo A. Milano, MD, G. Michael Felker, Chetan B. Patel, Pramod N. Bonde, MD, **Tariq Ahmad**. Plasma levels of microRNA-155 are upregulated with long-term left ventricular assist device support. *ASAIO.* 2017 May 17.
50. **Tariq Ahmad** and Jeffrey Testani. Hemoconcentration as a Treatment Goal in Heart Failure: Ready for Prime Time? *European Journal of Heart Failure.* 2017 Feb;19(2):237-240.
51. **Tariq Ahmad** and Jeffrey Testani. What Happens to Heart Failure Patients If They Do Not Take Their Medications? *European Journal of Heart Failure.* May;19(5):650-651
52. Hanberg JS, Tang WH, Wilson FP, Coca SG, **Tariq Ahmad**, Brisco MA, Testani JM. An exploratory analysis of the competing effects of aggressive decongestion and high-dose loop diuretic therapy in the DOSE trial. *International Journal of Cardiology.* 2017 Mar 27
53. Ikuta K, Wang Y, Robinson A, **Tariq Ahmad**, Krumholz HM, Desai NR. National Trends in Use and Outcomes of Pulmonary Artery Catheters Among Medicare Beneficiaries, 1999-2013. *JAMA Cardiology.* 2017 Jun 7
54. **Tariq Ahmad**, Jacob N Schroder, James L Januzzi. Breaking Bad: The Heartbreak of Drug Abuse. *JACC Heart Failure.* 2017 Jun;5(6):446-448
55. Nickolas Papoutsidakis, **Tariq Ahmad**, Daniel Jacoby. Our unquenched thirst to improve prediction of heart failure risk: From jugular venous distention to microRNAs. *Journal of Heart Lung Transplant.* 2017 Jun;36(6):607-608
56. **Tariq Ahmad**, Jeffrey M Testani. Physical Activity Prevents Obesity and Heart Failure: Now What Are We Going to Do About It? *JACC Heart Failure* 2017 May;5(5):385-387
57. Parikh KS, Rao Y, **Tariq Ahmad**, Shen K, Felker GM, Rajagopal S. Novel approach to classifying patients with pulmonary arterial hypertension using cluster analysis. *Pulm Circ.* 2017 Apr-Jun;7(2):486-493
58. Rao VS, Planavsky N, Hanberg JS, **Tariq Ahmad**, Brisco-Bacik MA, Wilson FP, Jacoby D, Chen M, Tang WHW, Cherney DZI, Ellison DH, Testani JM. Compensatory Distal Reabsorption Drives Diuretic Resistance in Human Heart Failure. *Journal of American Society Nephrology.* 2017 Jul 24.
59. Aaron Soufer, Ralph Riello, Nihar R. Desai, Jeffrey Testani, **Tariq Ahmad**. A Blueprint for The Post Discharge Clinic Visit After an Admission for Heart Failure. *Progress in Cardiovascular Diseases.* *Prog Cardiovasc Dis.* 2017 Aug 18
60. Jeremy Cypen, **Tariq Ahmad**, Jeffrey M Testani, Adam D DeVore. Novel Biomarkers for the Risk Stratification of Heart Failure with Preserved Ejection Fraction. *Curr Heart Fail Rep.* 2017 Aug 12. doi: 10.1007/s11897-017-0358-4
61. Hanberg JS, Rao VS, **Tariq Ahmad**, Chunara Z, Mahoney D, Jackson K, Jacoby D, Chen M, Wilson FP, Tang WHW, Kakkar R, Testani JM. Inflammation and cardio-renal interactions in heart failure: a potential role for interleukin-6. *Eur J Heart Fail.* 2017 Oct 11.
62. Sumeet Parwar, Nihar Desai, **Tariq Ahmad**. The Twittersphere Needs Academic Cardiologists! *JACC Heart Failure.* 2017 Nov 27. pii: S2213-1779(17)30705-9.
63. **Tariq Ahmad**, Keyanna Jackson, Veena Rao; F. Perry Wilson, Meredith A. Brisco, Jeffrey M. Testani. Renal Tubular Injury is Not a Major Driver of Worsening Renal Function in Acute Heart Failure Patients Undergoing Aggressive Diuresis. *Circulation.* 2018 May 8;137(19):2016-2028. doi: 10.1161/CIRCULATIONAHA.117.030112.
64. Patel S, Poojary P, Pawar S, Saha A, Patel A, Chauhan K, Correa A, Mondal P, Mahajan K, Chan L, Ferrandino R, Mehta D, Agarwal SK, Annapureddy N, Patel J, Saunders P, Crooke G, Shani J, **Tariq Ahmad**, Desai N, Nadkarni GN, Shetty V. National Landscape of Unplanned 30-Day

- Readmissions in Patients With Left Ventricular Assist Device Implantation. *Am J Cardiology*. 2018 Jul 15;122(2):261-267.
65. Ferreira JP, Duarte K, McMurray JJV, Pitt B, van Veldhuisen DJ, Vincent J, **Tariq Ahmad**, Tromp J, Rossignol P, Zannad F. Data-Driven Approach to Identify Subgroups of Heart Failure with Reduced Ejection Fraction Patients with Different Prognoses and Aldosterone Antagonist Response Patterns. *Circ Heart Fail*. 2018 Jul;11(7):e004926.
 66. Soucier RJ, Miller PE, Ingrassia JJ, Riello R, Desai NR, **Tariq Ahmad**. Essential Elements of Early Post Discharge Care of Patients with Heart Failure. *Current Heart Fail Rep*. 2018 Jun;15(3):181-190. 2018 May 8;137(19):2016-2028.
 67. Elliot Miller and **Tariq Ahmad**. Loop diuretics in heart failure: Few facts and lots of prejudice. *American Heart Journal*. 2018 Jul 30. pii: S0002-8703(18)30234-5.
 68. **Tariq Ahmad** and Michael Felker. Combating Acute Heart Failure in the Arena: Lessons From the ROPA-DOP Trial. *JACC Heart Fail*. 2018 Aug 7.
 69. **Tariq Ahmad**, Lund LH, Rao P, Ghosh R, Warier P, Vaccaro B, Dahlström U, O'Connor CM, Felker GM, Desai NR. *J Am Heart Assoc*. 2018 Apr 12;7(8)
 70. **Tariq Ahmad**, F Perry Wilson, Nihar Desai. The Trifecta of Precision Care in Heart Failure. *Journal of American College of Cardiology*. 2018 Sep 4;72(10):1091-1094.
 71. Brisco-Bacik MA, Ter Maaten JM, Houser SR, Vedage NA, Rao V, **Tariq Ahmad**, Wilson FP, Testani JM. Outcomes Associated With a Strategy of Adjuvant Metolazone or High-Dose Loop Diuretics in Acute Decompensated Heart Failure: A Propensity Analysis. *J Am Heart Assoc*. 2018 Sep 18;7(18):e009149
 72. Elliot Miller, Sumeet Pawar, Benjamin Vaccaro, Pooja Rao, Prashant Warier, Nihar Desai, **Tariq Ahmad**. Predictive Abilities of Machine Learning Techniques May Be Limited by Dataset Characteristics: Insights from the UNOS Database. *Journal of Cardiac Failure*. 2019 Feb 6;
 73. Hollenberg SM, Warner Stevenson L, **Ahmad T**, Amin VJ, Bozkurt B, Butler J, Davis LL, Drazner MH, Kirkpatrick JN, Peterson PN, Reed BN, Roy CL, Storrow AB. 2019 ACC Expert Consensus Decision Pathway on Risk Assessment, Management, and Clinical Trajectory of Patients Hospitalized With Heart Failure: A Report of the American College of Cardiology Solution Set Oversight Committee. *J Am Coll Cardiol*. 2019 Sep 10;. doi: 10.1016/j.jacc.2019.08.001. [Epub ahead of print] PubMed PMID: 31526538.
 74. Januzzi JL Jr, **Ahmad T**, Mulder H, Coles A, Anstrom KJ, Adams KF, Ezekowitz JA, Fiuzat M, Houston-Miller N, Mark DB, Piña IL, Passmore G, Whellan DJ, Cooper LS, Leifer ES, Desvigne-Nickens P, Felker GM, O'Connor CM. Natriuretic Peptide Response and Outcomes in Chronic Heart Failure With Reduced Ejection Fraction. *J Am Coll Cardiol*. 2019 Sep 3;74(9):1205-1217. doi: 10.1016/j.jacc.2019.06.055. PubMed PMID: 31466618; PubMed Central PMCID: PMC6719723.
 75. **Ahmad T**, Miller PE, McCullough M, Desai NR, Riello R, Psootka M, Böhm M, Allen LA, Teerlink JR, Rosano GMC, Lindenfeld J. Why has positive inotropy failed in chronic heart failure? Lessons from prior inotrope trials. *Eur J Heart Fail*. 2019 Sep;21(9):1064-1078. doi: 10.1002/ejhf.1557. Epub 2019 Aug 13. Review. PubMed PMID: 31407860.

Book Chapters

1. **Tariq Ahmad**, Javed Butler, and Barry Borlaug. The Diagnosis and Treatment of Heart Failure. *Hurst's the Heart 14th Edition*. McGraw Hill and American Medical Association. 2017.
2. **Tariq Ahmad** and Paul Ridker. *Genetics of Cardiovascular Disease*. Clinical Genomics: Practical Applications in Adult Patient Care. McGraw Hill and American Medical Association. 2014.
3. **Tariq Ahmad** and Paul Ridker. Inflammation in the Development and Complications of Coronary Artery Disease. *Cardiac Biomarkers in Clinical Practice*. Edited by James L Januzzi. Jones and Bartlett Publishers, 2009.

FUNDING INFORMATION

Past Research Support (3 Years)

Principal Investigator name: Tariq Ahmad, MD, MPH

Percent effort: 10%

Award Type and Number: N/A

Funding Agency/Institution: Yale Section of Cardiovascular Medicine Internal Funding.

Annual Direct Costs: \$25,000

Total Award (Direct and Indirect Costs): \$25,000

Project Period (start and end dates): 7/2015-8/2016

Project Name: Start-Up Funds from Section of Cardiovascular Medicine.

Brief Project Description: Project examined the impact of aggressive diuresis in heart failure on biomarkers of Acute Kidney Injury (AKI). The results were recently published (*Tariq Ahmad et al. Renal Tubular Injury is Not a Major Mechanism for Worsening Renal Function in Acute Heart Failure Patients Undergoing Aggressive Diuresis. Circulation. 2018 May 8;137(19):2016-2028. PMID: 29352071*).

Principal Investigator name: Tariq Ahmad, MD, MPH

Percent effort: N/A

Award Type and Number: L30HL115790-03; Loan Repayment Program

Funding Agency/Institution: NHLBI, Loan Repayment Program (LRP)

Total Award (Direct and Indirect Costs): \$175,000

Project Period (start and end dates): 7/2012-8/2016

Project Name: Start-Up Funds from Section of Cardiovascular Medicine.

Brief Project Description: The project aimed at examining change in biomarkers of myocardial stretch, fibrosis, and metabolism after left ventricular assist device support. The results have been published [*Tariq Ahmad et al. Long-Chain Acylcarnitine Metabolites Are Associated with Adverse Outcomes and Reversible with Mechanical Circulatory Support in Systolic Heart Failure. Journal of the American College of Cardiology. 2016 Jan 26;67(3):291-9. PMID: 26796394; Tariq Ahmad et al. Effects of Left Ventricular Assist Device Placement on Biomarkers of Cardiovascular Stress, Fibrosis, Inflammation, Fluid Homeostasis, and Renal Function. Journal of the American College of Cardiology: Heart Failure. 2015 Jan;3(1):30-9. PMID: 25447345*].

Current Research Support

Principal Investigator name: Harlan Krumholz, MD, SM

Percent effort: 75%

Award Type and Number: K12HS023000

Funding Agency/Institution: Agency for Healthcare Research and Quality

Annual Direct Costs: \$117,450

Total Award (Direct and Indirect Costs): \$284,900

Project Period (start and end dates): 9/1/2018-9/1/2020

Project Name: Patient Reported Outcomes Measures Ascertained Via a Novel Digital Heart Failure Registry.

Brief Project Description: This project involves creating a registry of heart failure patients using a novel mobile Health (m-Health) platform called HugoPHR.