**Cardiovascular Medicine – 2022**

**Publications**

**Abbas AE**. Significant vs severe aortic stenosis: The rule of 4. JACC Cardiovasc Interv. 2022 Nov 28;15(22):2345-2347. doi: 10.1016/j.jcin.2022.09.016. PMID: 36423981

**Abbas AE**. From killip to forrester to echocardiography: Beyond myocardial infarction.

J Am Soc Echocardiogr. 2022 Apr;35(4):443-444. doi: 10.1016/j.echo.2021.11.015. Epub 2021 Dec 4. PMID: 34875313

Aggarwal D, Bhatia K, Chunawala ZS, Furtado RHM, Mukherjee D, **Dixon SR**, et al. P2Y12 inhibitor versus aspirin monotherapy for secondary prevention of cardiovascular events: meta-analysis of randomized trials. Eur Heart J Open. 2022 Mar 21;2(2):oeac019. doi: 10.1093/ehjopen/oeac019. eCollection 2022 Mar. PMID: 35919116

**Allen O, Gallagher L, Bloomingdale R**. Pre and post-operative CT imaging of adult ALCAPA: Reverse left ventricular remodeling and regression of intracoronary collateral network. J Cardiovasc Comput Tomogr. 2022 Jul-Aug;16(4):e31-e34. doi: 10.1016/j.jcct.2022.02.009. Epub 2022 Mar 3.

PMID: 35272961

Barker M, **Abbas AE**, Webb JG, Pibarot P, Sathananthan J, Brunner N, et al. Standardized invasive hemodynamics for management of patients with elevated echocardiographis gradients post-transcatheter aortic valve replacement at midterm follow-up. Circ Cardiovasc Interv. 2022 Jan;15(1):e011243. doi: 10.1161/CIRCINTERVENTIONS.121.011243. Epub 2021 Nov 21.

PMID: 34802254

Bilchick KC, Stafford P, Laja O, Elumogo C, Bediako P, Tolbert N, **Mehta N**, et al. Relationship of ejection fraction and natriuretic peptide trajectories in heart failure with baseline reduced and mid-range ejection fraction. Am Heart J. 2022 Jan;243:1-10. doi: 10.1016/j.ahj.2021.08.015. Epub 2021 Aug 25. PMID: 34453882

**Dixon SR**, **Rabah M**, Emerson S, Schultz C, **Madder RD**. A novel catheterization laboratory radiation shielding system: Results of pre-clinical testing. Cardiovasc Revasc Med. 2022 Mar;36:51-55. doi: 10.1016/j.carrev.2021.05.017. Epub 2021 May 21. PMID: 34052128

Dolin RH, Heale BSE, Alterovitz G, Gupta R, Aronson J, Boxwala A, et al, **Haines D**. Introducing HL7 FHIR genomics operations: a developer-friendly approach to genomics-EHR integration. J Am Med Inform Assoc. 2022 Dec 22:ocac246. doi: 10.1093/jamia/ocac246. PMID: 36548217

Dong M, Liu L, Bilchick KC, **Mehta NK**, Cho YS, Koene RJ, et al. Academic cardiac electrophysiologists' perspectives on sleep apnea care. Sleep Breath. 2022 Jun 1. doi: 10.1007/s11325-022-02636-9. PMID: 35648335

Eng MH, **Abbas AE**. Transcatheter mitral valve replacement in failed bioprosthetic surgical valves and surgical annuloplasty rings. Curr Cardiol Rep. 2022 Oct;24(10):1417-1424. doi: 10.1007/s11886-022-01761-x. Epub 2022 Aug 18. PMID: 35980565

Faghy M, Arena R, Hills AP, Yates J, Vermeesch AL, **Franklin BA**, et al. The response to the COVID-19 pandemic: With hindsight what lessons can we learn? Prog Cardiovasc Dis. 2022 Dec 6:S0033-0620(22)00140-2. doi: 10.1016/j.pcad.2022.11.019. Online ahead of print. PMID: 36481211

**Franklin BA**, Quindry J. High level physical activity in cardiac rehabilitation: Implications for exercise training and leisure-time pursuits. Prog Cardiovasc Dis. 2022 Jan-Feb;70:22-32. doi: 10.1016/j.pcad.2021.12.005. Epub 2021 Dec 29. PMID: 34971650

**Franklin BA**, Eijsvogels TMH, Pandey A, Quindry J, Toth PP. Physical activity, cardiorespiratory fitness, and cardiovascular health: A clinical practice statement of the American Society for Preventive Cardiology Part II: Physical activity, cardiorespiratory fitness, minimum and goal intensities for exercise training, prescriptive methods, and special patient populations. Am J Prev Cardiol. 2022 Oct 13;12:100425. doi: 10.1016/j.ajpc.2022.100425. eCollection 2022 Dec. PMID: 36281325

**Franklin BA,** Arena R, Kaminsky LA, Peterman JE, Kokkinos P, Myers J. Maximizing the cardioprotective benefits of exercise with age-, sex-, and fitness-adjusted target intensities for training. Eur J Prev Cardiol. 2022 Feb 19;29(1):e1-e3. doi: 10.1093/eurjpc/zwaa094. PMID: 34724044

Garg J, Shah S,**Shah K**, Bhardwaj R, Contractor T, Mandapati R, et al. Left atrial appendage closure in patients with intracranial hemorrhage. J Interv Card Electrophysiol. 2022 Feb 2. doi: 10.1007/s10840-022-01141-z

**Goldstein JA, Mehta NK**. Extent of coronary atherosclerosis and ischemic myocardium foment sudden cardiac death. Catheter Cardiovasc Interv. 2022 Feb;99(3):812-813. doi: 10.1002/ccd.30130. PMID: 35235687

**Goldstein JA**. The Quest for Imaging Paradise: High Resolution with Minimal Radiation Exposure. Cardiovasc Revasc Med. 2022 Oct;43:60-61. doi: 10.1016/j.carrev.2022.07.015. Epub 2022 Jul 28. PMID: 35934643

Guzzetti E, Oh JK, Shen M, Dweck MR, Poh KK, **Abbas AE**, **Mando R,** et al. Validation of aortic valve calcium quantification thresholds measured by computed tomography in Asian patients with calcific aortic stenosis. Eur Heart J Cardiovasc Imaging. 2022 Apr 18;23(5):717-726. doi: 10.1093/ehjci/jeab116. PMID: 34172988

**Haines DE**. What is different about pulsed-field ablation … everything? J Cardiovasc Electrophysiol. 2022 Mar;33(3):368-370. doi: 10.1111/jce.15353. Epub 2022 Jan 20. PMID: 35005815

Hammer P, Tari AR, **Franklin BA**, Wen CP, Wisløff U, Nauman J. Personal activity intelligence and ischemic heart disease in a healthy population: China Kadoorie Biobank Study. J Clin Med. 2022 Nov 4;11(21):6552. doi: 10.3390/jcm11216552. PMID: 36362780

**Haines DE**, Kong MH, Ruppersberg P, Haeusser P, Avitall B, Torok TS, et al. Electrographic flow mapping for atrial fibrillation: theoretical basis and preliminary observations. J Interv Card Electrophysiol. 2022 Aug 15. doi: 10.1007/s10840-022-01308-8. Online ahead of print. PMID: 35969338

Hanzel GS, **Abbas AE**, Schreiber TL, O'Neill WW. Account of the first transcatheter aortic valve replacement in north america. JACC Cardiovasc Interv. 2022 Dec 12;15(23):2440-2444. doi: 10.1016/j.jcin.2022.09.042. Epub 2022 Nov 16. PMID: 36480987

Herrmann HC, Pibarot P, Wu C, Hahn RT, Tang GHL, **Abbas AE**, et al. Heart Valve Collaboratory. Bioprosthetic aortic valve hemodynamics: Definitions, outcomes, and evidence gaps: JACC State-of-the-Art Review. J Am Coll Cardiol. 2022 Aug 2;80(5):527-544. doi: 10.1016/j.jacc.2022.06.001. PMID: 35902177

Howard B, **Haines DE**, Verma A, Kirchhof N, Barka N, Onal B, et al. Characterization of phrenic nerve response to pulsed field ablation. Circ Arrhythm Electrophysiol. 2022 Jun;15(6):e010127. doi: 10.1161/CIRCEP.121.010127. Epub 2022 Jun 1. PMID: 35649121

Iannaccone M, Franchin L, **Hanson ID**, Boccuzzi G, Basir MB, Truesdell AG, et al. Timing of impella placement in PCI for acute myocardial infarction complicated by cardiogenic shock: An updated meta-analysis. Int J Cardiol. 2022 Sep 1;362:47-54. doi: 10.1016/j.ijcard.2022.05.011. Epub 2022 May 6. PMID: 35533755

Ijaz SH, Minhas AMK, Ghoneem A, Khan SU, Sharma G, **Mehta NK**, et al. Association of dementia with in-hospital outcomes in primary heart failure and acute myocardial infarction hospitalizations. Prog Cardiovasc Dis. 2022 Jul-Aug;73:24-31. doi: 10.1016/j.pcad.2022.06.007. Epub 2022 Jun 17. PMID: 35718115

Kewcharoen J, \***Shah K,** Bhardwaj R, Contractor T, Turagam MK, Mandapati R, et al. Surgical left atrial appendage occlusion in patients with left ventricular assist device. Pacing Clin Electrophysiol. 2022 Feb 24. doi: 10.1111/pace.14471.

Kewcharoen J, \***Shah K,** Bhardwaj R, Contractor T, Turagam MK, Mandapati R, et al. Periprocedural outcomes of protamine administration after catheter ablation of atrial fibrillation. Rev. Cardiovasc. Med. 2022, 23(1), 1. Doi: [https://doi.org/10.31083/j.rcm2301034](https://secure-web.cisco.com/1VoC_hw3d6LXj-Le93vFXpyWnZ9IO0PAuEWHGEf8BqNQU_a7V9cmOqNZNfOgCEtfRqT5v4QmGgSHH-8PnEU-mU4R34NlqNIOWNdky0yAO2aJbkLy5fpALAICnHAIQ54_iAtk-zvEDSRzCquUJKVdWSCE1u-DVTriFTWircXF28TKzTSuHP9J76DwcKEXD_ZIK-SOHldyMOK2HpFbLe_i5WDdgwKAHZqQi4eVed-t_1D1x4MZuE9tjt2Z6cPtn-bBDMikCsLGxiRpUK5G1BbTlfaPso6ENQ8o6RCa5DsvJP965-XtFAPKl3747u_MxKxh4BBgqivqSi9FvHN6xZ3SQoN4n8J9iF6VvhU2D1RhtrhI/https%3A//doi.org/10.31083/j.rcm2301034)

Kewcharoen J, \***Shah K**, Bhardwaj R, Contractor T, Turagam MK, Mandapati R, et al. Post-FDA Approval “Real-World” Safety Profile Between Different Steerable Sheaths During Catheter Ablation: A Food and Drug Administration MAUDE database study, Heart Rhythm (2022), doi: https://doi.org/10.1016/j.hrthm.2021.12.034.

Khalili H, Pibarot P, Hahn RT, Elmariah S, Pilgrim T, Bavry AA, et al, **Abbas AE**. Transvalvular pressure gradients and all-cause mortality following TAVR: A multicenter echocardiographic and invasive registry. JACC Cardiovasc Interv. 2022 Sep 26;15(18):1837-1848. doi: 10.1016/j.jcin.2022.07.033. PMID: 36137687

Khemraj RR, Solano C, Patel NM, **Franklin BA**. Impact of Social Disparities on Cardiovascular Disease and COVID-19 Outcomes: BARRIERS TO CARE AND PREVENTIVE INTERVENTIONS.

J Cardiopulm Rehabil Prev. 2022 Mar 1;42(2):84-89. doi: 10.1097/HCR.0000000000000691.

PMID: 35213869

Knio ZO, Morales FL, Shah KP, Ondigi OK, Selinski CE, Baldeo CM, et al, **Mehta NK**. A systemic congestive index (systemic pulse pressure to central venous pressure ratio) predicts adverse outcomes in patients undergoing valvular heart surgery. J Card Surg. 2022 Oct;37(10):3259-3266. doi: 10.1111/jocs.16772. Epub 2022 Jul 17. PMID: 35842813

Lavie CJ, **Franklin BA**, Ferdinand KC. Improving Behavioral Counseling for Primary Cardiovascular Disease Prevention. JAMA Cardiol. 2022 Sep 1;7(9):886-888. doi: 10.1001/jamacardio.2022.2259.

PMID: 35881408

Madanat L, Shah K, **Bloomingdale R, Williamson BD**. Diaphragmatic pacing as an initial presentation of delayed ventricular lead perforation. J Innov Card Rhythm Manag. 2022 May 15;13(5):5004-5008. doi: 10.19102/icrm.2022.130504. eCollection 2022 May. PMID: 35655806

Madanat L, Seeley E, Shah K, **Mando R**, **Hanson I**, **Abbas A**, **Renard BM**, **Haines DE**, **Mehta N**.

Transcatheter aortic valve replacement: does timing of cardiac implantable electronic device implantation impact mortality? J Interv Card Electrophysiol. 2022 Oct;65(1):3-5. doi: 10.1007/s10840-022-01286-x. Epub 2022 Jun 27. PMID: 35759161

Madanat L, Gupta R, Weber P, Kumar N, Chandra R, Ahaneku H, et al,**Bilolikar A**. Cardiotoxicity of biological therapies in cancer patients: An in-depth review. Curr Cardiol Rev. 2022 May 31. doi: 10.2174/1573403X18666220531094800. PMID: 35642110

Mazimba S, Jeukeng C, Ondigi O, Mwansa H, Johnson AE, Elumogo C, et al, **Mehta N**. Coronary perfusion pressure is associated with adverse outcomes in advanced heart failure. Perfusion. 2022 Aug 10:2676591221118693. doi: 10.1177/02676591221118693. Online ahead of print. PMID: 35947883

Mazimba S, Mwansa H, Breathett K, Strickling JE, Shah K, McNamara C, et al, **Mehta N**.

Systemic arterial pulsatility index (SAPi) predicts adverse outcomes in advanced heart failure patients. Heart Vessels. 2022 Oct;37(10):1719-1727. doi: 10.1007/s00380-022-02070-7. Epub 2022 May 10. PMID: 35534640

**Mehta NK, Haines DE**. Are we ready for the next frontier: PFA in the ventricle? JACC Clin Electrophysiol. 2022 Jun;8(6):732-734. doi: 10.1016/j.jacep.2022.05.004. PMID: 35738849

**Mehta NK**, Schumann C, Davogustto G, Cluckey A, Harmon E, France J, et al. Utility of ischemia testing prior to ablation for sustained monomorphic ventricular tachycardia. J Innov Card Rhythm Manag. 2022 Mar 15;13(3):4908-4914. doi: 10.19102/icrm.2022.130301. eCollection 2022 Mar. PMID: 35317206

**Mehta NK**, Allam S, Mazimba S, Karim S. Racial, ethnic, and socioeconomic disparities in out-of-hospital cardiac arrest within the United States: Now is the time for change. Heart Rhythm O2. 2022 Dec 16;3(6Part B):857-863. doi: 10.1016/j.hroo.2022.07.009. eCollection 2022 Dec. PMID: 36588995

Nauman J, **Franklin BA**, Nes BM, Sallis RE, Sawada SS, Marinović J, et al. Association between personal activity intelligence and mortality: Population-based China Kadoorie Biobank Study. Mayo Clin Proc. 2022 Apr;97(4):668-681. doi: 10.1016/j.mayocp.2021.10.022. Epub 2021 Dec 3. PMID: 34865822

Patel PR, Stafford PL, Bilchick KC, Walker MR, Ibrahim S, Martin D, et al, **Mehta N**. Right atrial volume index to left atrial volume index ratio is associated with adverse clinical outcomes in cardiogenic shock. J Echocardiogr. 2022 Mar;20(1):42-50. doi: 10.1007/s12574-021-00552-7. Epub 2021 Oct 8. PMID: 34623621

Pibarot P, Herrmann HC, Wu C, Hahn RT, Otto CM, **Abbas AE**, et al; Heart Valve Collaboratory. Standardized definitions for bioprosthetic valve dysfunction following aortic or mitral valve replacement: JACC State-of-the-Art Review. J Am Coll Cardiol. 2022 Aug 2;80(5):545-561. doi: 10.1016/j.jacc.2022.06.002. PMID: 35902178

Rizik DG, **Goldstein JA**. Intervention for aortic stenosis complicated by shock: Focus on the ventricle. Catheter Cardiovasc Interv. 2022 Nov;100(6):1117-1118. doi: 10.1002/ccd.30486. PMID: 36444704

Rodés-Cabau J, **Abbas AE**, Serra V, Vilalta V, Nombela-Franco L, Regueiro A, et al. Balloon- vs self-expanding valve systems for failed small surgical aortic valve bioprostheses. J Am Coll Cardiol. 2022 Aug 16;80(7):681-693. doi: 10.1016/j.jacc.2022.05.005. Epub 2022 May 18. PMID: 35597385

Rojas E, Morgaenko K, Brown L, Kim S, Mazimba S,et al, **Haines DE, Mehta NK**. Evaluation of a novel mechanical compression device for hematoma prevention and wound cosmesis after CIED implantation. Pacing Clin Electrophysiol. 2022 Apr;45(4):491-498. doi: 10.1111/pace.14454. Epub 2022 Mar 4. PMID: 35174901

**\*Rusia A, Schott J, Franklin B, Dixon S**. Correlation of peripheral and central venous pressure in patients who underwent right heart catheterization. Am J Cardiol. 2022 Mar 15;167:162-164. doi: 10.1016/j.amjcard.2021.12.011. Epub 2022 Jan 20. PMID: 35067345

**\*Shah KB**, Saado J, Kerwin M, Mazimba S, Kwon Y, Mangrum JM, et al, **Haines DE, Mehta NK**. Meta-analysis of new-onset atrial fibrillation versus no history of atrial fibrillation in patients with noncardiac critical care illness. Am J Cardiol. 2022 Feb 1;164:57-63. doi: 10.1016/j.amjcard.2021.10.036

Shah S, Dibben G, Ketkar A, Hare DL, Myers J, **Franklin B**, et al. Identifying the optimal exercise prescription for patients with coronary artery disease undergoing cardiac rehabilitation: Protocol for a systematic review and network meta-analysis of randomized control trials. Int J Environ Res Public Health. 2022 Sep 28;19(19):12317. doi: 10.3390/ijerph191912317. PMID: 36231615

Stephanie M Spehar, Milan Seth, Peter Henke, Khaldoon Alaswad, Theodore Schreiber, **Aaron Berman**, et al. Race and outcomes after percutaneous coronary intervention: Insights from the Blue Cross Blue Shield of Michigan Cardiovascular Consortium. Am Heart J 2023 Jan;255:106-116. doi: 10.1016/j.ahj.2022.10.001. Epub 2022 Oct 8. PMID 36216076

Stafford PL, Harmon E, Patel P, Walker M, Akoum N, Park SJ, et al, **Mehta N**. Positional obstructive sleep apnea in patients with atrial fibrillation. Sleep Breath. 2022 May 10. doi: 10.1007/s11325-022-02625-y. Online ahead of print. PMID: 35538180

**\*Shah K,** **Williamson BD, Kutinsky I**, Bhardwaj R, Contractor T, Turagam MK, et al. Conduction system pacing in prosthetic heart valves. J Interv Card Electrophysiol. 2022 Apr 25. doi: 10.1007/s10840-022-01228-7. Online ahead of print. PMID: 35469052

Tari AR, Selbæk G, **Franklin BA,** Bergh S, Skjellegrind H, Sallis RE, et al. Temporal changes in personal activity intelligence and the risk of incident dementia and dementia related mortality: A prospective cohort study (HUNT). EClinicalMedicine. 2022 Aug 18;52:101607. doi: 10.1016/j.eclinm.2022.101607. eCollection 2022 Oct. PMID: 36034407

**Tawney AM**, **Schott JP, Safian RD, Goldstein JA, Bloomingdale RJ, O'Connell TF, Bilolikar AN, Abbas AE, Renard BM, Hanson ID**. Valve-in-mitral annular calcification transcatheter mitral valve replacement after thrombosis of extracardiac valved conduit. JACC Case Rep. 2022 Oct 5;4(19):1267-1273. doi: 10.1016/j.jaccas.2022.07.024. eCollection 2022 Oct 5. PMID: 36406921

Verma A, Boersma L, **Haines DE**, Natale A, Marchlinski FE, Sanders P, et al. First-in-human experience and acute procedural outcomes using a novel pulsed field ablation system: The PULSED AF Pilot Trial. Circ Arrhythm Electrophysiol. 2022 Jan;15(1):e010168. doi: 10.1161/CIRCEP.121.010168. Epub 2021 Dec 29. PMID: 34964367