

Beaumont, Royal Oak – Cardiovascular Medicine

Peer Reviewed Articles:

Abbas AE, Mando R, Hanzel G, Goldstein J, Shannon F, Pibarot P. Hemodynamic principles of prosthetic aortic valve evaluation in the transcatheter aortic valve replacement era. *Echocardiography*. 2020 May;37(5):738-757. doi: 10.1111/echo.14663. Epub 2020 May 3. PMID: 32362021

Abbas AE. Prosthesis-patient mismatch following transcatheter aortic valve replacement: Does size matter? *JACC Cardiovasc Interv*. 2020 Jan 13;13(1):138. doi: 10.1016/j.jcin.2019.10.027. PMID: 31918931

Abbas AE. Letter by Abbas regarding articles, "balloon-expandable versus self-expanding transcatheter aortic valve replacement: a propensity-matched comparison from the france-tavi registry" and "impact of sapien 3 balloon-expandable versus evolut r self-expandable transcatheter aortic valve implantation in patients with aortic stenosis: data from a nationwide analysis". *Circulation*. 2020 Jun 16;141(24):e908-e909. doi: 10.1161/CIRCULATIONAHA.120.046066. Epub 2020 Jun 15. PMID: 32539615

Ades PA, Balady GJ, Berra K, **Franklin BA**, Froelicher V, Hamm LF, et al. The Journal of Cardiopulmonary Rehabilitation and Prevention at 40 Years and its role in the evolution of cardiac rehabilitation. *J Cardiopulm Rehabil Prev*. 2020 Jan;40(1):2-8. doi: 10.1097/HCR.0000000000000494. PMID: 31868839

Al'Aref SJ, Singh G, Choi JW, Xu Z, Maliakal G, van Rosendael AR, et al **[Chinnaiyan K]**. A boosted ensemble algorithm for determination of plaque stability in high-risk patients on coronary CTA. *JACC Cardiovasc Imaging*. 2020 Oct;13(10):2162-2173. doi: 10.1016/j.jcmg.2020.03.025. Epub 2020 Jul 15. PMID: 32682719

Al'Aref SJ, Maliakal G, Singh G, van Rosendael AR, Ma X, Xu Z, et al **[Chinnaiyan K]**. Machine learning of clinical variables and coronary artery calcium scoring for the prediction of obstructive coronary artery disease on coronary computed tomography angiography: analysis from the CONFIRM registry. *Eur Heart J*. 2020 Jan 14;41(3):359-367. doi: 10.1093/eurheartj/ehz565. PMID: 31513271

Ayaaz K Sachedina 1, **Steven C Ajluni** 2, Marwan F Jumean 1 The use of a sentinel cerebral protection system during Impella CP removal in a patient with left ventricular thrombus. *Case Reports Catheter Cardiovasc Interv*. 2020 Aug;96(2):504-506. doi: 10.1002/ccd.28956. Epub 2020 May 8. PMID: 32384581

Baskaran L, Al'Aref SJ, Maliakal G, Lee BC, Xu Z, Choi JW, et al **[Chinnaiyan K]**. Automatic segmentation of multiple cardiovascular structures from cardiac computed tomography angiography images using deep learning. *PLoS One*. 2020 May 6;15(5):e0232573. doi: 10.1371/journal.pone.0232573. eCollection 2020. PMID: 32374784

Bax AM, van Rosendael AR, Ma X, van den Hoogen IJ, Gianni U, Tantawy SW, et al **[Chinnaiyan K]**; PARADIGM Investigators. Comparative differences in the atherosclerotic disease burden between the epicardial coronary arteries: quantitative plaque analysis on coronary computed tomography angiography. *Eur Heart J Cardiovasc Imaging*. 2020 Nov 20;jeaa275. doi: 10.1093/ehjci/jeaa275. Online ahead of print. PMID: 33215192

Bloomington R, Safian RD. What's so anomalous about anomalous coronary arteries? *Catheter Cardiovasc Interv*. 2020 Aug;96(2):328-329. doi: 10.1002/ccd.29156. PMID: 32797738

Bradley CJ, Haines DE. Pulsed field ablation for pulmonary vein isolation in the treatment of atrial fibrillation. *J Cardiovasc Electrophysiol*. 2020 Aug;31(8):2136-2147. doi: 10.1111/jce.14414. Epub 2020 May 16. PMID: 32107812

Brown EC, **Franklin BA**, Regensteiner JG, Stewart KJ. Effects of single bout resistance exercise on glucose levels, insulin action, and cardiovascular risk in type 2 diabetes: A narrative review. *J Diabetes Complications*. 2020 Aug;34(8):107610. doi: 10.1016/j.jdiacomp.2020.107610. Epub 2020 May 3. PMID: 32402840

Cami E, Tagami T, Raff G, Gallagher MJ, Fan A, Hafeez A, et al [Willner SJ, George J, Bilolikor A, Chinnaiyan K, Safian RD]. Importance of measurement site on assessment of lesion-specific ischemia and diagnostic performance by coronary computed tomography Angiography-Derived Fractional Flow Reserve. *J Cardiovasc Comput Tomogr.* 2020 Aug 29;S1934-5925(20)30413-5. doi: 10.1016/j.jcct.2020.08.005. Online ahead of print. PMID: 32943356

Carroll JD, Mack MJ, Vemulapalli S, Herrmann HC, Gleason TG, **Hanzel G**, et al. STS-ACC TVT registry of transcatheter aortic valve replacement. *J Am Coll Cardiol.* 2020 Nov 24;76(21):2492-2516. doi: 10.1016/j.jacc.2020.09.595. PMID: 33213729

Carroll JD, Mack MJ, Vemulapalli S, Herrmann HC, Gleason TG, **Hanzel G**, et al. STS-ACC TVT registry of transcatheter aortic valve replacement. *Ann Thorac Surg.* 2020 Nov 16;S0003-4975(20)31514-9. doi: 10.1016/j.athoracsur.2020.09.002. Online ahead of print. PMID: 33213826

Chen S, David SW, Khan ZA, Metzger DC, Wasserman HS, Lotfi AS, et al [**Hanson ID, Dixon SR**]. One-year outcomes of supersaturated oxygen therapy in acute anterior myocardial infarction: The IC-HOT study. *Catheter Cardiovasc Interv.* 2020 Jul 10. doi: 10.1002/ccd.29090. Online ahead of print. PMID: 32649037

Chinnaiyan KM, Safian RD, Gallagher ML, George J, Dixon SR, Bilolikor AN, et al [Abbas AE, Shoukfeh M, Brodsky M, Stewart J, *Cami E, Forst D, Timmis S, Crile J, *Raff GL]. Clinical use of CT-derived fractional flow reserve in the emergency department. *JACC Cardiovasc Imaging.* 2020 Feb;13(2 Pt 1):452-461. doi: 10.1016/j.jcmg.2019.05.025. Epub 2019 Jul 17. PMID: 31326487

Choi JW, van Rosendael AR, Bax AM, van den Hoogen IJ, Gianni U, Baskaran L, et al [**Chinnaiyan K**]. The Journal of Cardiovascular Computed Tomography year in review - 2019. *J Cardiovasc Comput Tomogr.* 2020 Mar-Apr;14(2):107-117. doi: 10.1016/j.jcct.2020.01.003. Epub 2020 Jan 15. PMID: 31969256

Fairbairn TA, Dobson R, Hurwitz-Koweek L, Matsuo H, Norgaard BL, Rønnow Sand NP, et al [**Chinnaiyan KM**]. Sex differences in coronary computed tomography angiography-derived fractional flow reserve: Lessons from ADVANCE. *JACC Cardiovasc Imaging.* 2020 Dec;13(12):2576-2587. doi: 10.1016/j.jcmg.2020.07.008. Epub 2020 Aug 26. PMID: 32861656

Ferraro RA, van Rosendael AR, Lu Y, Andreini D, Al-Mallah MH, Cademartiri F, et al [**Chinnaiyan K**]. Non-obstructive high-risk plaques increase the risk of future culprit lesions comparable to obstructive plaques without high-risk features: the ICONIC study. *Eur Heart J Cardiovasc Imaging.* 2020 Sep 1;21(9):973-980. doi: 10.1093/ehjci/jeaa048. PMID: 32535636

Franklin BA, Brubaker P, Harber MP, Lavie CJ, Myers J, Kaminsky LA. The Journal of Cardiopulmonary Rehabilitation and Prevention at 40 yr and its role in promoting preventive cardiology: Part 2. *J Cardiopulm Rehabil Prev.* 2020 Jul;40(4):209-214. doi: 10.1097/HCR.0000000000000523. PMID: 32604250

Franklin BA, Brubaker PH, Harber MP, Lavie CJ, Myers J, Kaminsky LA. The Journal of Cardiopulmonary Rehabilitation and Prevention at 40 Years and its role in promoting lifestyle medicine for prevention of cardiovascular diseases: PART 1. *J Cardiopulm Rehabil Prev.* 2020 May;40(3):131-137. doi: 10.1097/HCR.0000000000000514. PMID: 32355074

Franklin BA, Thompson PD, Al-Zaiti SS, Albert CM, Hivert MF, Levine BD, et al; American Heart Association Physical Activity Committee of the Council on Lifestyle and Cardiometabolic Health; Council on Cardiovascular and Stroke Nursing; Council on Clinical Cardiology; and Stroke Council. Exercise-related acute cardiovascular events and potential deleterious adaptations following long-term exercise training: Placing the risks into perspective-an update: A scientific statement from the American Heart Association. *Circulation.* 2020 Mar 31;141(13):e705-e736. doi: 10.1161/CIR.0000000000000749. Epub 2020 Feb 26. PMID: 32100573

Franklin BA, Myers J, Kokkinos P. Importance of lifestyle modification on cardiovascular risk reduction: Counseling strategies to maximize patient outcomes. *J Cardiopulm Rehabil Prev.* 2020 May;40(3):138-143. doi: 10.1097/HCR.0000000000000496. PMID: 32332248

Gallagher MJ, Bloomingdale R, Berman AD, Williamson BD, Dixon SR, Safian RD. Strategic deployment of cardiology fellows in training using the accreditation council for graduate medical education coronavirus disease 2019 framework. *J Am Heart Assoc.* 2020 Jul 21;9(14):e017443. doi: 10.1161/JAHA.120.017443. Epub 2020 Jun 1 PMID: 32476547

Garcia S, Albaghdadi MS, Meraj PM, Schmidt C, Garberich R, Jaffer FA, **[Dixon S]**, et al. Reduction in ST-Segment elevation cardiac catheterization laboratory activations in the United States during COVID-19 pandemic. PMID: 32283124 PMCID: PMC7151384 DOI: 10.1016/j.jacc.2020.04.01

Garcia S, Stanberry L, Schmidt C, Sharkey S, Megaly M, Albaghdadi MS, et al **[Dixon SR]**. Impact of COVID-19 pandemic on STEMI care: an expanded analysis from the United States. *Catheter Cardiovasc Interv.* 2020 Aug 7;10.1002/ccd.29154. doi: 10.1002/ccd.29154. Online ahead of print. PMID: 3276765

Garcia S, Stanberry L, Schmidt C, Sharkey S, Megaly M, Albaghdadi MS, et al **[Dixon SR]**. Impact of COVID-19 pandemic on STEMI care: an expanded analysis from the United States. *Catheter Cardiovasc Interv.* 2020 Aug 7;10.1002/ccd.29154. doi: 10.1002/ccd.29154. PMID: 32767652

Gebhard C, Maredziak M, Messerli M, Buechel RR, Lin F, Gransar H, et al **[Chinnaiyan K]**. Increased long-term mortality in women with high left ventricular ejection fraction: data from the CONFIRM (COronary CT Angiography Evaluation For Clinical Outcomes: An InteRnational Multicenter) long-term registry. *Eur Heart J Cardiovasc Imaging.* 2020 Apr 1;21(4):363-374. doi: 10.1093/ehjci/jez321. PMID: 31985803

Goldstein JA. Cardiac tamponade in the interventional era: A paradigm shift in etiology and outcomes. *Catheter Cardiovasc Interv.* 2020 Feb 15;95(3):387-388. doi: 10.1002/ccd.28764. PMID: 3206737

Goldstein JA, Kern MJ. Hemodynamics of constrictive pericarditis and restrictive cardiomyopathy. *Catheter Cardiovasc Interv.* 2020 May 1;95(6):1240-1248. doi: 10.1002/ccd.28692. Epub 2020 Jan 6. PMID: 31904891

Goldstein JA, Hanson I. Impella RP for treatment of right ventricular shock: Appropriate unloading never gets old. *Catheter Cardiovasc Interv.* 2020 Aug;96(2):382-383. doi: 10.1002/ccd.29165. PMID: 32797744

Goldstein JA, Dixon SR. Mechanically supported PCI for ischemic cardiomyopathy reawakening of hibernating myocardium. *Catheter Cardiovasc Interv.* 2020 Oct 1;96(4):771-772. doi: 10.1002/ccd.29304. PMID: 33085194

Haines DE. A paradigm shift to address occupational health risks in the EP laboratory. *Heart Rhythm.* 2020 May;17(5 Pt A):681-682. doi: 10.1016/j.hrthm.2019.12.018. Epub 2020 Feb 12. PMID: 32060002

Halalau A, Ditkoff J, Hamilton J, Sharrak A, Vanood A, **Abbas A**, et al. Emergency center curbside screening during the COVID-19 pandemic: Retrospective cohort study. *JMIR Public Health Surveill.* 2020 Jul 21;6(3):e20040. doi: 10.2196/20040. PMID: 32619184

Han D, Kolli KK, Al'Aref SJ, Baskaran L, van Rosendaal AR, Gransar H, et al **[Chinnaiyan K]**. Machine learning framework to identify individuals at risk of rapid progression of coronary atherosclerosis: From the PARADIGM registry. *J Am Heart Assoc.* 2020 Mar 3;9(5):e013958. doi: 10.1161/JAHA.119.013958. Epub 2020 Feb 22. PMID: 32089046

Han D, Klein E, Friedman J, Gransar H, Achenbach S, Al-Mallah MH, et al **[Chinnaiyan K]**. Prognostic significance of subtle coronary calcification in patients with zero coronary artery calcium score: From the CONFIRM registry. *Atherosclerosis.* 2020 Sep;309:33-38. doi: 10.1016/j.atherosclerosis.2020.07.011. Epub 2020 Jul 29. PMID: 32862086

Han D, Berman DS, Miller RJH, Andreini D, Budoff MJ, Cademartiri F, et al **[Chinnaiyan K]**. Association of Cardiovascular Disease Risk Factor Burden With Progression of Coronary Atherosclerosis Assessed by Serial Coronary Computed

Tomographic Angiography. *JAMA Netw Open*. 2020 Jul 1;3(7):e2011444. doi: 10.1001/jamanetworkopen.2020.11444. PMID: 32706382

Hanson ID, Tagami T, Mando R, Kara Balla A, **Dixon SR, Timmis S, [Almany S]**; National Cardiogenic Shock Investigators. SCAI shock classification in acute myocardial infarction: Insights from the national cardiogenic shock initiative. *Catheter Cardiovasc Interv*. 2020 Nov;96(6):1137-1142. doi: 10.1002/ccd.29139. Epub 2020 Jul 16. PMID: 32672388

Hanzel GS, Gersh BJ. Transcatheter aortic valve replacement in low-risk, young patients: natural expansion or cause for concern? *Circulation*. 2020 Oct 6;142(14):1317-1319. doi: 10.1161/CIRCULATIONAHA.120.047874. Epub 2020 Oct 5. PMID: 33017211

Howard B, **Haines DE**, Verma A, Packer D, Kirchoff N, Barka N, et al. Reduction in pulmonary vein stenosis and collateral damage with pulsed field ablation compared with radiofrequency ablation in a canine model. *Circ Arrhythm Electrophysiol*. 2020 Sep;13(9):e008337. doi: 10.1161/CIRCEP.120.008337. Epub 2020 Jul 27. PMID: 32877256

Ionescu F, Jaiyesimi I, Petrescu I, Lawler PR, Castillo E, Munoz-Maldonado Y, et al **[Abbas AE]**. Association of anticoagulation dose and survival in hospitalized COVID-19 patients: A retrospective propensity score-weighted analysis. *Eur J Haematol*. 2020 Oct 11:10.1111/ejh.13533. doi: 10.1111/ejh.13533. Online ahead of print. PMID: 33043484

Jae SY, Kurl S, Bunsawat K, **Franklin BA**, Choo J, Kunutsor SK, et al. Impact of cardiorespiratory fitness on survival in men with low socioeconomic status. *Eur J Prev Cardiol*. 2020 Feb 3:2047487319901057. doi: 10.1177/2047487319901057. Online ahead of print. PMID: 3201360

Jae SY, Heffernan K, Kurl S, Kunutsor SK, **Franklin BA**, Savonen K, et al. Chronotropic response to exercise testing and the risk of stroke. *Am J Cardiol*. 2020 Dec 19:S0002-9149(20)31370-9. doi: 10.1016/j.amjcard.2020.12.042. Online ahead of print. PMID: 33347840

Jae SY, Kurl S, Kunutsor SK, **Franklin BA**, Laukkanen JA. Relation of maximal systolic blood pressure during exercise testing to the risk of sudden cardiac death in men with and without cardiovascular disease. *Eur J Prev Cardiol*. 2020 Dec;27(19):2220-2222. doi: 10.1177/2047487319880031. Epub 2019 Oct 11. PMID: 31604381

John J, Garg L, Orosey M, Desai T, **Haines DE**, Wong WS. The effect of esophageal cooling on esophageal injury during radiofrequency catheter ablation of atrial fibrillation. *J Interv Card Electrophysiol*. 2020 Jun;58(1):43-50. doi: 10.1007/s10840-019-00566-3. Epub 2019 Jun 1. PMID: 31154536

Kadavath S, **Mohan J**, Ashraf S, Kassier A, Hawwass D, Madan N, et al **[Dixon SR, Safian RD]**. Cardiac catheterization laboratory volume changes during COVID-19-findings from a cardiovascular fellows consortium. *Am J Cardiol*. 2020 Sep 1;130:168-169. doi: 10.1016/j.amjcard.2020.06.009. Epub 2020 Jun 11. PMID: 32665133

Kadri AN, Bernardo M, Assar SZ, Werns S, **Abbas AE**. Surgical versus transcatheter aortic valve replacement in patients with malignancy. *Cardiovasc Revasc Med*. 2020 Aug 13:S1553-8389(20)30487-5. doi: 10.1016/j.carrev.2020.08.018. Online ahead of print. PMID: 32861637

Kalra A, Michos ED, **Chinnaiyan KM**. COVID-19 and the healthcare workers. *Eur Heart J*. 2020 Aug 14;41(31):2936-2937. doi: 10.1093/eurheartj/ehaa489. PMID: 32501476

Kim M, Lee SP, Kwak S, Yang S, Kim YJ, Andreini D, et al **[Chinnaiyan K]**. Impact of age on coronary artery plaque progression and clinical outcome: A PARADIGM substudy. *J Cardiovasc Comput Tomogr*. 2020 Oct 1:S1934-5925(20)30448-2. doi: 10.1016/j.jcct.2020.09.009. Online ahead of print. PMID: 33032975

Klein LW, **Goldstein JA, Haines D**, Chambers C, Mehran R, Kort S, et al. SCAI multi-society position statement on occupational health hazards of the catheterization laboratory: Shifting the paradigm for Healthcare Workers' Protection. *Catheter Cardiovasc Interv*. 2020 Jun 1;95(7):1327-1333. doi: 10.1002/ccd.28579. Epub 2020 Feb 11. PMID: 32043834

Klein LW, **Goldstein JA**, **Haines D**, Chambers C, Mehran R, Kort S, et al. SCAI Multi-society position statement on occupational health hazards of the catheterization laboratory: Shifting the paradigm for Healthcare Workers' Protection. *J Am Coll Cardiol*. 2020 Apr 14;75(14):1718-1724. doi: 10.1016/j.jacc.2020.02.015. PMID: 32273037

Kokkinos P, Kaminsky LA, Arena R, Zhang J, **Franklin B**, Kraus W, et al. New equations for predicting maximum oxygen uptake in patients with heart failure. *Am J Cardiol*. 2020 Aug 1;128:7-11. doi: 10.1016/j.amjcard.2020.04.049. Epub 2020 May 19. PMID: 32650927

Lau WC, Shannon FL, **Hanzel GS**, **Safian RD**, **Abbas AE**, Sakwa MP, et al [**Almany SL**, **Hanson ID**]. Transfemoral transcatheter aortic valve replacement using fascia iliaca block as an alternative approach to conscious sedation as compared to general anesthesia. *Cardiovasc Revasc Med*. 2020 May;21(5):594-601. doi: 10.1016/j.carrev.2019.08.080. Epub 2019 Sep 7. PMID: 31523003

Lee SE, Sung JM, Andreini D, Al-Mallah MH, Budoff MJ, Cademartiri F, et al [**Chinnaiyan K**]. Per-lesion versus per-patient analysis of coronary artery disease in predicting the development of obstructive lesions: the Progression of Atherosclerotic Plaque Determined by Computed Tomographic Angiography Imaging (PARADIGM) study. *Int J Cardiovasc Imaging*. 2020 Dec;36(12):2357-2364. doi: 10.1007/s10554-020-01960-z. Epub 2020 Aug 10. PMID: 32779077

Lee SE, Sung JM, Andreini D, Al-Mallah MH, Budoff MJ, Cademartiri F, et al [**Chinnaiyan K**]. Differences in progression to obstructive lesions per high-risk plaque features and plaque volumes with CCTA. *JACC Cardiovasc Imaging*. 2020 Jun;13(6):1409-1417. doi: 10.1016/j.jcmg.2019.09.011. Epub 2019 Nov 13. PMID: 31734214

Lee SE, Sung JM, Andreini D, Al-Mallah MH, Budoff MJ, Cademartiri F, [**Chinnaiyan K**], et al. Sex differences in compositional plaque volume progression in patients with coronary artery disease. *JACC Cardiovasc Imaging*. 2020 Nov;13(11):2386-2396. doi: 10.1016/j.jcmg.2020.06.034. Epub 2020 Aug 19. PMID: 32828763

Lemor A, Basir MB, Patel K, Kolski B, Kaki A, Kapur NK, et al, [**Hanson I**]; National Cardiogenic Shock Initiative Investigators. Multivessel versus culprit-vessel percutaneous coronary intervention in cardiogenic shock. *JACC Cardiovasc Interv*. 2020 May 25;13(10):1171-1178. doi: 10.1016/j.jcin.2020.03.012. Epub 2020 Apr 29. PMID: 3236025

Madder RD, **Dixon SR**, Seth M, Lee D, Earl T, Hill T, et al. Institutional variability in patient radiation doses ≥ 5 Gy during percutaneous coronary intervention. *JACC Cardiovasc Interv*. 2020 Apr 13;13(7):846-856. doi: 10.1016/j.jcin.2019.11.032. PMID: 32273096

Mando R, **Tim D**, **DeCicco A**, **Trivax J**, **Hanson I**. Master of the masquerade: An atypical presentation of acute aortic dissection. *Case Rep Cardiol*. 2020 Feb 20;2020:5743985. doi: 10.1155/2020/5743985. eCollection 2020. PMID: 32148970

Maskoun W, Raad M, Khan A, **Mando R**, Homsy M. Biventricular implantable cardioverter-defibrillator device placement in patients with hostile tricuspid valve anatomy: two case reports and review of the literature. *Europace*. 2020 Oct 1;22(10):1520-1525. doi: 10.1093/europace/euaa177. PMID: 32830224

McCullough PA, **Goldstein JA**. A novel strategy to prevent contrast nephropathy: "Continuous hemodiafiltration". *Catheter Cardiovasc Interv*. 2020 Nov;96(6):1182-1183. doi: 10.1002/ccd.29356. PMID: 33217180

Mehta A, Kondamudi N, Laukkanen JA, Wisloff U, **Franklin BA**, Arena R, et al. Running away from cardiovascular disease at the right speed: The impact of aerobic physical activity and cardiorespiratory fitness on cardiovascular disease risk and associated subclinical phenotypes. *Prog Cardiovasc Dis*. 2020 Nov-Dec;63(6):762-774. doi: 10.1016/j.pcad.2020.11.004. Epub 2020 Nov 13. PMID: 33189764

Mehta N, Doerr K, Skipper A, Rojas-Pena E, **Dixon S**, **Haines D**. Current strategies to minimize postoperative hematoma formation in patients undergoing cardiac implantable electronic device implantation: A review. *Heart Rhythm*. 2020 Nov 23:S1547-5271(20)31069-9. doi: 10.1016/j.hrthm.2020.11.017. Online ahead of print. PMID: 33242669

Mohan J., Yelamanchilli V., Zacharias S. Acute coronary syndrome catheter interventions. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan 31. PMID: 30844157

Mustafa S, Zafar M, Langnas E, Shahbaz A, **Vira A**, **Hanson I**. Effect of sympathetic renal denervation on heart failure with reduced ejection fraction: A systematic review and meta-analysis. *J AM Coll Cardiol*. 2020 December, 76:17 (suppl b): 8181.

Nikolin S, Alonzo A, Martin D, Gálvez V, Buten S, Taylor R, **[Goldstein J]**, et al. Transcranial random noise stimulation for the acute treatment of depression: A randomized controlled trial. *Int J Neuropsychopharmacol*. 2020 Apr 21;23(3):146-156. doi: 10.1093/ijnp/pyz072. PMID: 31899509

O'Connell TF, Bradley CJ, Abbas AD, Williamson BD, Rusia A, Tawney AM, Gaines R, Schott J, Dmitrienko A, Haines DE. Hydroxychloroquine/Azithromycin therapy and QT prolongation in hospitalized patients with COVID-19. *JACC Clin Electrophysiol* 2020 August (Epub ahead of print).

Pathangey G, Fadadu PP, Hospodar AR, **Abbas A**. Angiotensin-converting enzyme 2 and COVID-19: Patients, comorbidities, and therapies. *Am J Physiol Lung Cell Mol Physiol*. 2020 Nov 25. doi: 10.1152/ajplung.00259.2020. Online ahead of print. PMID: 33237815

Perez O., **Sharma D.**, Kanmanthareddy A. Balloon valvuloplasty. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan. 2020 May 8. PMID: 30137817

Safian RD. Invasive fractional flow reserve: Which technology is best? *Catheter Cardiovasc Interv*. 2020 May 1;95(6):1102-1103. doi: 10.1002/ccd.28912. PMID: 32421236

Safian RD. Asymptomatic carotid artery stenosis: Revascularization. *Prog Cardiovasc Dis*. 2017 May-Jun;59(6):591-600. doi: 10.1016/j.pcad.2017.04.006. Epub 2017 May 3. PMID: 28478115 Review

Safian RD. RESPONSE: Incremental mental toughness training. *J Am Coll Cardiol*. 2020 Oct 20;76(16):1908-1909. doi: 10.1016/j.jacc.2020.09.541. PMID: 33059837

Schott JP, Mertens AN, Bloomingdale R, O'Connell TF, Gallagher MJ, Dixon S, [Abbas AE]. Transthoracic echocardiographic findings in patients admitted with SARS-CoV-2 infection. *Echocardiography*. 2020 Oct;37(10):1551-1556. doi: 10.1111/echo.14835. Epub 2020 Sep 19. PMID: 32949015

Thokala P, Dodd P, Baalbaki H, Brennan A, **Dixon S**, Lowrie K. Developing markov models from real-world data: A case study of heart failure modeling using administrative data. *Value Health*. 2020 Jun;23(6):743-750. doi: 10.1016/j.jval.2020.02.012. PMID: 32540232

Thompson PD, Baggish AL, **Franklin B**, Jaworski C, Riebe D. American college of sports medicine expert consensus statement to update recommendations for screening, staffing, and emergency policies to prevent cardiovascular events at health fitness facilities. *Curr Sports Med Rep*. 2020 Jun;19(6):223-231. doi: 10.1249/JSR.0000000000000721. PMID: 32516193

Tram J, Pressman A, Chen NW, Berger DA, Miller J, Welch RD, et al **[Hanson I]**. Percutaneous mechanical circulatory support and survival in patients resuscitated from out of hospital cardiac arrest: A study from the CARES surveillance group. *Resuscitation*. 2021 Jan;158:122-129. doi: 10.1016/j.resuscitation.2020.10.046. Epub 2020 Nov 28. PMID: 33253768

van den Hoogen IJ, van Rosendaal AR, Lin FY, Lu Y, Dimitriu-Leen AC, Smit JM, et al **[Chinnaiyan K]**. Coronary atherosclerosis scoring with semiquantitative CCTA risk scores for prediction of major adverse cardiac events: Propensity score-based analysis of diabetic and non-diabetic patients. *J Cardiovasc Comput Tomogr*. 2020 May-Jun;14(3):251-257. doi: 10.1016/j.jcct.2019.11.015. Epub 2019 Dec 5. PMID: 31836415

van Rosendaal AR, Narula J, Lin FY, van den Hoogen IJ, Gianni U, Al Hussein Alawamh O, et al **[Chinnaiyan K]**. Association of high-density calcified 1K plaque with risk of acute coronary syndrome. *JAMA Cardiol*. 2020 Mar 1;5(3):282-290. doi: 10.1001/jamacardio.2019.5315. PMID: 31968065

van Rosendaal AR, Bax AM, Smit JM, van den Hoogen IJ, Ma X, Al'Aref S, et al **[Chinnaiyan K]**. Clinical risk factors and atherosclerotic plaque extent to define risk for major events in patients without obstructive coronary artery disease: the long-term coronary computed tomography angiography CONFIRM registry. *Eur Heart J Cardiovasc Imaging*. 2020 May 1;21(5):479-488. doi: 10.1093/ehjci/jez322. PMID: 32065624

van Rosendaal AR, Lin FY, Ma X, van den Hoogen IJ, Gianni U, Al Hussein O, et al **[Chinnaiyan K]**. Percent atheroma volume: Optimal variable to report whole-heart atherosclerotic plaque burden with coronary CTA, the PARADIGM study. *J Cardiovasc Comput Tomogr*. 2020 Sep-Oct;14(5):400-406. doi: 10.1016/j.jcct.2020.01.012. Epub 2020 Jan 30. PMID: 32063545

Vivacqua A, Robinson J, **Abbas AE**, Altshuler JM, Shannon FL, Podolsky RH, et al. Single-dose cardioplegia protects myocardium as well as traditional repetitive dosing: A noninferiority randomized study. *J Thorac Cardiovasc Surg*. 2020 May;159(5):1857-1863.e1. doi: 10.1016/j.jtcvs.2019.03.125. Epub 2019 May 11. PMID: 31204129

Weir-McCall JR, Branch K, Ferencik M, Blankstein R, Choi AD, Ghoshhajra BB, et al **[Chinnaiyan K]**. Highlights of the 15th annual scientific meeting of the Society of Cardiovascular Computed Tomography. *J Cardiovasc Comput Tomogr*. 2020 Nov-Dec;14(6):466-470. doi: 10.1016/j.jcct.2020.09.008. Epub 2020 Oct 1. PMID: 33028509

Won KB, Lee BK, Park HB, Heo R, Lee SE, Rizvi A, et al **[Chinnaiyan K]**. Quantitative assessment of coronary plaque volume change related to triglyceride glucose index: The Progression of Atherosclerotic Plaque Determined by Computed Tomographic Angiography IMaging (PARADIGM) registry. *Cardiovasc Diabetol*. 2020 Jul 18;19(1):113. doi: 10.1186/s12933-020-01081-w. PMID: 32682451

Willis BL, Radford NB, Barlow CE, Leonard D, **Franklin BA**, DeFina LF. Divergent association of high levels of physical activity with cardiac versus noncardiac arterial calcification. *Am Heart J*. 2020 Nov 25;233:10-13. doi: 10.1016/j.ahj.2020.11.007. Online ahead of print. PMID: 33245904

Yamamoto MH, Maehara A, Stone GW, Kini AS, Brilakis ES, Rizik DG, **Dixon SR, Goldstein JA**, 2-Year outcomes after stenting of lipid-rich and nonrich coronary plaques. *J Am Coll Cardiol*. 2020 Mar 31;75(12):1371-1382. doi: 10.1016/j.jacc.2020.01.044. PMID: 32216905

Presentations:

Abbas A, Dadri A, Okuno T, Elmariah S, **Almany SL, Hanzel G**, et al. The Impact of Valvular Hemodynamics Post TAVR for Native Aortic Valve Stenosis on 1 year outcomes. A Multicenter International Retrospective Study TCT Miami September 23-27, 2020 abstract JACC

Allen O, Dixon S. Unstable angina in a low risk patient: "Zero" do not mean no risk. American College of Cardiology/World Congress of Cardiology 2020. Chicago, IL. March 28-30, 2020 (Cancel conferenced due to COVID).

Assar S, **Mando R, Gaines R, Hanzel GS**, Shannon F, **Hanson I**, Lau W, **Almany S, Safian R.D, Kerner N, Gallagher M, Vivacqua A, Abbas A.E**. The effect of flow and gradient on the acceleration and ejection times and their ratio in patients with severe aortic stenosis. American College of Cardiology, ACC.20 World Congress of Cardiology, Chicago, IL. March 28-30, 2020. (accepted – conference canceled due to COVID)

Bloomington R, Vira A, Trivax J, Kado H. Spontaneous pulmonic intratumoral airway-vascular fistula resulting in massive STEMI and cardiac arrest. American College of Cardiology/World Congress of Cardiology 2020. Chicago, IL. March 28-30, 2020 (Cancel conferenced due to COVID). Poster

Bradley C., Kutinsky I., Williamson B. Endocardial and epicardial radiofrequency ablation of ventricular tachycardia in a patient with hypertrophic cardiomyopathy and apical aneurysm. 16th Annual European Cardiac Arrhythmia Society, Marseille, France, April 2 – 4, 2020 (accepted – conference canceled due to COVID)

Bradley C., Williamson B., Varma D, Dai S., Douglas A., George J., **Ahmed S., Nori D.,** Foster N., **Al-Ameri H., Man K., Haines D.** His bundle implant outcomes and one-year capture threshold. 16th Annual European Cardiac Arrhythmia Society, Marseille, France, April 2 – 4, 2020 (accepted – conference canceled due to COVID)

Dai S., Williamson B., Bradley C., George J., Easton R., Smith G., Pestano C., Ahlgren B., Vibert B., Hulen C., Papakonstantinou N., Silvasi D. Intraoperative methadone for spine surgery and risk of qt prolongation. 16th Annual European Cardiac Arrhythmia Society, Marseille, France. April 2-4, 2020. (accepted – conference canceled due to COVID).

DO A, Radjef R, Aurora L, Singh A, **Tawney A,** Kraus D, Jacobsen G, McCord J. Safety of evaluating for acute coronary syndrome in the emergency department using a modified HEART score. American College of Cardiology, ACC.20 World Congress of Cardiology, Chicago, IL. March 28-30, 2020. (accepted – conference canceled due to COVID)

Gaines R, Mando R, Tucker C, Assar S, Hite A, **Hanzel G.S, et al [Gallagher M, Almany S, Safian R.D, Kerner N, Abbas A.E.]** CT versus echocardiographic stroke volume index to invasively derived cardiac index to assess flow in patients with aortic stenosis. American College of Cardiology, ACC.20 World Congress of Cardiology, Chicago, IL. March 28-30, 2020. (accepted – conference canceled due to COVID)

Gaines R, Mando R, Tucker C, Assar S, Hite A, **Hanzel G.S, et al [Gallagher M, Almany S, Safian R.D, Kerner N, Abbas A.E.]** Echocardiographic vs. computed tomographic-derived energy loss index compared to invasive aortic valve area in aortic stenosis. American College of Cardiology, ACC.20 World Congress of Cardiology, Chicago, IL. March 28-30, 2020. (accepted – conference canceled due to COVID)

Hite A, **Abbas A, Hanzel G, Shannon F, Almany SL, Hanson I,** et al. Invasive versus Echocardiographic Gradients post Valve in Valve TAVR: A multi-center Trial. Abstract TCT Miami September 23-27, 2020 JACC

Kelly R, Ledvina A, Otero R, **Gaines R, Abbas AE,** Dalal B, et al. Epidemiologic differences in respiratory failure due to COVID-19 in a large suburban healthcare system. American College of Emergency Physicians Research Forum 2020: Virtual Research Forum. October 26, 2020.

Langnas E, Mustafa S, **Vira A, Bilollikar A.** Rapidly progressing purulent pericarditis caused by neisseria meningitidis infection. Chest Annual Meeting 2020 (Virtual). October 18-21, 2020.

Mustafa S, Zafar M, Langnas E, **Vira A, Hanson I.** Intractable hemolysis after post-myocardial infarction ventricular septal defect closure. Chest Annual Meeting 2020 (Virtual). October 18-21, 2020.

O'Connell T, Tiska J, George J, **Safian R, Chinnaiyan K,** Coronary CTA and CT-derived fractional flow reserve: Gatekeepers to invasive angiography in patients with high pre-test probability of coronary artery disease. March 2020. American College of Cardiology, ACC.20 World Congress of Cardiology, Chicago, IL. March 28-30, 2020. (accepted – conference canceled due to COVID)

Sheikh MA, Kong X, Haymart B, Gu X, Kaatz S, Krol G, et al, [**Almany S**]. Low Bleeding Risk Procedures: Should we let DOAC be? [abstract]. Thrombosis & Hemostasis Summit of North America 2020; Short Talk -Oct 28th, 2020

Tagami T, Bilollikar N. Use of coronary tomography angiography to detect coronary artery disease in breast cancer survivors previously treated with radiotherapy. Online presentation, Society of Cardiovascular Computed Tomography Annual Conference 2020.

Tagami T. Bio-pella support in cardiogenic shock. Houston Shock Symposium. Houston, Texas. March 8, 2020.