

Cardiovascular Imaging Publications  
St. Francis Hospital and Heart Center

2024

1. Bapat VN, Fukui M, Zaid S, Okada A, Jilaihawi H, Rogers T, **Khalique O**, Cavalcante JL, Landes U, Sathananthan J, Tarantini G, Tang GHL, Blackman DJ, De Backer O, Mack MJ, Leon MB. A Guide to Transcatheter Aortic Valve Design and Systematic Planning for a Redo-TAV (TAV-in-TAV) Procedure. *JACC Cardiovasc Interv.* 2024 Jul 22;17(14):1631-1651. doi: 10.1016/j.jcin.2024.04.047. PMID: 39048251.
2. Zhou Qingtao, **Wang Lin**, **Craft Jason**, Weber Jonathan, Passick Michael, Ngai Nora, **Khalique Omar K.**, **Goldfarb James W.**, **Barasch Eddy**, **Cao J. Jane**. A machine learning-derived risk score to predict left ventricular diastolic dysfunction from clinical cardiovascular magnetic resonance imaging. *Frontiers in Cardiovascular Medicine.* 2024. doi: 10.3389/fcvm.2024.1382418 ISSN=2297-055X
3. Cavalcante JL, Scherer M, Fukui M, Lerakis S, Harb S, Pursnani A, Schwartz JG, Kapadia S, Ricciardi MJ, **Khalique O**, Kodali S, Shah D, Little SH, Sekaran N, Whisenant B, Flueckiger P, Yadav P, Emaminia A, Batchelor W, Kellman P, Lin Z, Trusty PM, Hahn RT, Adams D, Sorajja P. Advanced Imaging Assessment of the Impact of Tricuspid Regurgitation on Cardiac Remodeling: The TRILUMINATE Pivotal Imaging Substudy. *J Am Coll Cardiol.* 2024 Oct 30;S0735-1097(24)08459-6. doi: 10.1016/j.jacc.2024.09.009. Epub ahead of print. PMID: 39570246.
4. **Barasch E**, Gottdiener J, Buzkova P, Cappola A, Shah S, DeFilippi C, Gardin J, Kizer JR. Association of thyroid dysfunction in individuals  $\geq 65$  years of age with subclinical cardiac abnormalities. *J Clin Endocrinol Metab.* 2024 Jan 6:dgae001. doi: 10.1210/clinem/dgae001. Epub ahead of print. PMID: 38183678.
5. **Zheng H**. Body Surface Area Calculation and its Impact on Indexed Echocardiographic Measurements. *JACC Cardiovasc Imaging.* 2024 Jul;17(7):841. doi: 10.1016/j.jcmg.2023.12.015. PMID: 38960556.
6. Vora AN, Batchelor WB, Boudoulas KD, Daggubati R, Elmariah S, Hermiller JB, **Khalique O**, Kliger C, Mahoney PD, Skelding KA, Smith TBBJ, Szerlip M, Goldsweig AM; SCAI 2023 Think Tank Structural Consortium; Church M, Contreras N, Haddad M, Rangwala N, Schleifer D, Schlueter LR, Skelton K. Breaking Down Barriers to Transcatheter Aortic Valve Replacement. *J Soc Cardiovasc Angiogr Interv.* 2024 Jan 12;3(3Part A):101257. doi: 10.1016/j.jscai.2023.101257. PMID: 39131785; PMCID: PMC11308245.
7. **Craft, J., Li, Y., Nashta, N.F.** et al. Comparison between compressed sensing and segmented cine cardiac magnetic resonance: a meta-analysis. *BMC*

Cardiovasc Disord 23, 473 (2023). <https://doi.org/10.1186/s12872-023-03426-1>

8. Tsioulis A, Shin D, Singh M, Thomas SV, Sakai K, Maehara A, **Khalique O**, Shlofmitz ES, Moses JW, Jeremias A, Shlofmitz RA, Ali ZA. Coronary Neointimal Healing After Intravascular Lithotripsy Compared With Orbital Atherectomy Assessed by Serial Optical Coherence Tomography. *J Soc Cardiovasc Angiogr Interv*. 2024 Apr 16;3(6):101977. doi: 10.1016/j.jscai.2024.101977. PMID: 39132588; PMCID: PMC11307427.
9. Zhang H, Kafeti N, Masarik K, Lee S, Yang X, **Zheng H**, Zhan H. Decoding Endothelial MPL and JAK2V617F Mutation: Insight Into Cardiovascular Dysfunction in Myeloproliferative Neoplasms. *Arterioscler Thromb Vasc Biol*. 2024 Jul 11. doi: 10.1161/ATVBAHA.124.321008. Epub ahead of print. PMID: 38989576.
10. Sakai K, Shin D, Singh M, Malik S, Dakroub A, Sami Z, Weber J, **Cao JJ**, **Parikh R**, Chen L, Sosa F, Cohen DJ, Moses JW, Shlofmitz RA, Collet C, Shlofmitz E, Jeremias A, **Khalique OK**, Ali ZA. Diagnostic Performance and Clinical Impact of Photon-Counting Detector Computed Tomography in Coronary Artery Disease. *J Am Coll Cardiol*. 2024 Oct 23:S0735-1097(24)09956-X. doi: 10.1016/j.jacc.2024.10.069. Epub ahead of print. PMID: 39466216.
11. **Wang L**, Petrossian G, Robinson N, Chung W, Khan J, Shin D, Mihalatos D, Cohen DJ, Ali ZA, **Khalique O**. Early Experience of 3-Dimensional Intracardiac Echocardiography in Transcatheter Tricuspid Interventions. *J Soc Cardiovasc Angiogr Interv*. 2024 Jun 12;3(8):102168. doi: 10.1016/j.jscai.2024.102168. PMID: 39166168; PMCID: PMC11330919.
12. Vrijkorte MGH, **Khalique OK**, Lerakis S, Swaans MJ. Editorial: Imaging in structural heart interventions. *Front Cardiovasc Med*. 2024 Feb 14;11:1364243. doi: 10.3389/fcvm.2024.1364243. PMID: 38420266; PMCID: PMC10899701.
13. **Lu Q. Chen**, Jonathan Scheiner, Niloofar Fouladi Nashta, Jonathan Weber, Qingtao Zhou, Kathleen Rapelje, Damini Dey, **J. Jane Cao**, Epicardial fat modifies the relationship between coronary calcium score and all-cause mortality: The St. Francis Heart Study, *American Journal of Preventive Cardiology*, Volume 19, 2024, 100689, ISSN 2666-6677, <https://doi.org/10.1016/j.ajpc.2024.100689>.
14. **Chen L, Wang L**, Petrossian G, Robinson N, Chung W, Henry M, Mihalatos D, Bano R, Weber J, Khan J, Cohen DJ, Berke A, Ali Z, **Khalique OK**. Etiologies and Impact of Exclusion Rates for Transcatheter Mitral and Tricuspid Valve Structural Heart Clinical Trials at a High Volume Quaternary Care Hospital. *Am J Cardiol*. 2024 Mar 1:S0002-9149(24)00152-8. doi: 10.1016/j.amjcard.2024.02.035. Epub ahead of print. PMID: 38432332.

15. Sadri S, Loeb GJ, Grinshpoon A, Elvezio C, Sun SH, Ng VG, **Khalique O**, Moses JW, Einstein AJ, Patel AJ, George I, Hahn RT, Nazif TM, Leon MB, Kirtane AJ, Kodali SK, Feiner SK, Vahl TP. First Experience With Augmented Reality Guidance for Cerebral Embolic Protection During TAVR. *JACC Adv*. 2024 Feb 7;3(3):100839. doi: 10.1016/j.jacadv.2024.100839. PMID: 38938839; PMCID: PMC11198681.
16. Weir-McCall JR, Chinnaiyan K, Choi AD, Fairbairn T, Jacobs JE, Kelion A, **Khalique O**, Shambrook J, Weber N, Williams MC, Nicol E, Ferencik M. Highlights of the nineteenth annual scientific meeting of the society of cardiovascular computed tomography. *J Cardiovasc Comput Tomogr*. 2024 Nov 19:S1934-5925(24)00493-3. doi: 10.1016/j.jcct.2024.11.001. Epub ahead of print. PMID: 39567290.
17. Zaid S, Kleiman NS, Goel SS, Szerlip MI, Mack MJ, Marin-Cuartas M, Mohammadi S, Nazif TM, Unbehaun A, Andreas M, Brinster DR, Robinson NB, **Wang L**, Ramlawi B, Conradi L, Desai ND, Forrest JK, Bagur R, Nguyen TC, Waksman R, Leroux L, Van Belle E, Grubb KJ, Ahmad HA, Denti P, Modine T, Bapat VN, Kaneko T, Reardon MJ, Tang GHL, Explant-Tavr Registry Investigators OBOT. Impact of transcatheter heart valve type on outcomes of surgical explantation after failed transcatheter aortic valve replacement: the EXPLANT-TAVR international registry. *EuroIntervention*. 2024 Jan 15;20(2):e146-e157. doi: 10.4244/EIJ-D-23-00722. PMID: 38224255; PMCID: PMC10786178.
18. **Wang L**, Weber J, **Craft J**, Passick M, **Khalique OK**, Ali ZA, Oh JK, **Cao JJ**. Improving the assessment of left ventricular diastolic dysfunction by including left atrial strain in the algorithm: LA Strain and LV diastolic dysfunction assessment. *J Card Fail*. 2024 Oct 30:S1071-9164(24)00883-2. doi: 10.1016/j.cardfail.2024.08.064. Epub ahead of print. PMID: 39486761.
19. Tamirisa KP, Ogunniyi MO, Chen MH, Contreras J, Tong AT, Kadiyala M, Tremmel JA, **Cao JJ**, Akhter N, Lewis SJ; ACC's Sandra J. Lewis Mid-Career Leadership Inaugural Cohort. Insights From Midcareer Women in Cardiology. *J Am Coll Cardiol*. 2024 Jul 9;84(2):219-222. doi: 10.1016/j.jacc.2024.04.049. PMID: 38960517.
20. Obeid JM, Sacca M, Strum Y, Regan J, La Mendola C, Robinson N, **Barasch E**, Carter TI. Intraoperative Type B Aortic Dissection With Malperfusion in a Patient With Marfan Syndrome. *Ann Thorac Surg Short Rep*. 2024 Jan 3;2(2):216-219. doi: 10.1016/j.atssr.2023.12.006. PMID: 39790164; PMCID: PMC11708705.
21. **Craft J**, Weber J, **Li Y**, Cheng JY, Diaz N, Kunze KP, Schmidt M, Grgas M, Weber S, Tang J, **Parikh R**, **Onuegbu A**, Yamashita AM, Haag E, Fuentes D, Czipo M, Neji R, Espada CB, Figueroa L, Rothbaum JA, Fujikura K, Bano R, **Khalique OK**, Prieto C, Botnar RM. Inversion recovery and saturation recovery pulmonary vein MR angiography using an image based navigator fluoro trigger and variable-density 3D cartesian sampling with spiral-like

- order. *Int J Cardiovasc Imaging*. 2024 Jun;40(6):1363-1376. doi: 10.1007/s10554-024-03111-0. Epub 2024 Apr 27. PMID: 38676848.
22. **Zheng H**. Lipid Profiling in Obesity: The Limitations of the Friedewald Equation. *Am J Med*. 2024 Sep 17:S0002-9343(24)00581-3. doi: 10.1016/j.amjmed.2024.09.011. Epub ahead of print. PMID: 39299639.
23. Sugizaki Y, Matsumura M, Chen Y, Tsukui T, Shlofmitz E, Thomas SV, Malik S, Dakroub A, Singh M, Shin D, Granville MJ, Busch JM, Wolff EH, Miraglia GM, Moses JW, **Khalique OK**, Cohen DJ, Mintz GS, Shlofmitz RA, Jeremias A, Ali ZA, Maehara A. Natural history of a newly developed calcified nodule: incidence, predictors, and clinical outcomes. *EuroIntervention*. 2024 Nov 4;20(21):e1330-e1339. doi: 10.4244/EIJ-D-24-00362. PMID: 39492700; PMCID: PMC11522861.
24. Young MN, Asgar AW, Goldsweig AM, Hermiller JB, **Khalique O**, Manoukian SV, Rao SV, Smith TBBJ, Szerlip M, Kliger C; SCAI 2024 Think Tank Structural Consortium -; Canpa K, Church M, Deible R, Ferguson R, Haddad M, Maguire L, Nelson D, Shetler J, Sultana N. Optimizing Health Care Resource Allocation, Workforce "Right-Sizing," and Stakeholder Collaboration. *J Soc Cardiovasc Angiogr Interv*. 2024 Dec 19;3(12):102397. doi: 10.1016/j.jscai.2024.102397. PMID: 39807239; PMCID: PMC11725150.
25. Thourani VH, Abbas AE, Ternacle J, Hahn RT, Makkar R, Kodali SK, George I, Kapadia S, Svensson LG, Szeto WY, Herrmann HC, Ailawadi G, Leipsic J, Blanke P, Webb J, Jaber WA, Russo M, Malaisrie SC, Yadav P, Clavel MA, **Khalique OK**, Weissman NJ, Douglas P, Bax J, Dahou A, Xu K, Bapat V, Alu MC, Leon MB, Mack MJ, Pibarot P. Patient-Prosthesis Mismatch After Surgical Aortic Valve Replacement: Analysis of the PARTNER Trials. *Ann Thorac Surg*. 2024 Feb 3:S0003-4975(24)00079-1. doi: 10.1016/j.athoracsur.2024.01.023. Epub ahead of print. PMID: 38316377.
26. Miller RJH, Manral N, Lin A, Shanbhag A, Park C, Kwiecinski J, Killekar A, McElhinney P, Matsumoto H, Razipour A, Grodecki K, Kwan AC, Han D, Kuronuma K, Flores Tomasino G, Geers J, Goeller M, Marwan M, Gransar H, Tamarappoo BK, Cadet S, Cheng VY, Achenbach S, Nicholls SJ, Wong DT, **Chen L**, **Cao JJ**, Berman DS, Dweck MR, Newby DE, Williams MC, Slomka PJ, Dey D. Patient-Specific Myocardial Infarction Risk Thresholds From AI-Enabled Coronary Plaque Analysis. *Circ Cardiovasc Imaging*. 2024 Oct;17(10):e016958. doi: 10.1161/CIRCIMAGING.124.016958. Epub 2024 Sep 30. PMID: 39405390.
27. Sato T, Matsumura M, Yamamoto K, Shlofmitz E, Moses JW, **Khalique OK**, Shin D, Dakroub A, Singh M, Malik S, Tsoulios A, Cohen DJ, Mintz GS, Shlofmitz RA, Jeremias A, Ali ZA, Maehara A. Prevalence and anatomical factors associated with stent under-expansion in non-severely calcified lesions. *Catheter Cardiovasc Interv*. 2024 May;103(6):833-842. doi: 10.1002/ccd.31035. Epub 2024 Apr 19. PMID: 38639137.

28. **Zheng H**, Zhan H. Preventing Anthracycline-Associated Heart Failure: What Is the Role of Dexrazoxane?: *JACC: CardioOncology Controversies in Cardio-Oncology*. *JACC CardioOncol*. 2024 Feb 13;6(2):318-321. doi: 10.1016/j.jaccao.2024.01.004. PMID: 38774009; PMCID: PMC11103021.
29. Qi Y, Wang F, Kong J, **Cao JJ**, **Li YY**. SwinUNET: a multiscale feature learning approach to cardiovascular magnetic resonance parametric mapping for myocardial tissue characterization. *Physiol Meas*. 2024 Mar 20;45(3). doi: 10.1088/1361-6579/ad2c15. PMID: 38387052.
30. Villar-Calle P, Kochav JD, Vadaketh K, Chiu C, Tak K, Agoglia H, Liberman N, Nguyen KL, Vizcarra-Tellez A, Wu A, RoyChoudhury A, **Khalique OK**, Judd RM, Kim RJ, Shah DJ, Heitner JF, Farzaneh-Far A, Shenoy C, Owyang CG, Mukherjee M, Horn EM, Weinsaft JW, Kim J. Tissue-Based Predictors of Impaired Right Ventricular Strain in Coronary Artery Disease: A Multicenter Stress Perfusion Study. *Circ Cardiovasc Imaging*. 2024 Aug;17(8):e016852. doi: 10.1161/CIRCIMAGING.124.016852. Epub 2024 Aug 20. PMID: 39163376; PMCID: PMC11343094.
31. Vahl TP, Thourani VH, Makkar RR, Hamid N, **Khalique OK**, Daniels D, McCabe JM, Satler L, Russo M, Cheng W, George I, Aldea G, Sheridan B, Kereiakes D, Golwala H, Zahr F, Chetcuti S, Yadav P, Kodali SK, Treede H, Baldus S, Amoroso N, Ranard LS, Pinto DS, Leon MB. Transcatheter aortic valve implantation in patients with high-risk symptomatic native aortic regurgitation (ALIGN-AR): a prospective, multicentre, single-arm study. *Lancet*. 2024 Mar 26:S0140-6736(23)02806-4. doi: 10.1016/S0140-6736(23)02806-4. Epub ahead of print. PMID: 38552656.
32. Fahim MA, **Wang L**, Petrossian G, **Khalique O**, Robinson N, Khan J, Fujikura K. Transcatheter Closure of Left Ventricular Outflow Tract Pseudoaneurysm Compressing the Left Anterior Descending Artery. *JACC Cardiovasc Interv*. 2023 Dec 30:S1936-8798(23)01623-0. doi: 10.1016/j.jcin.2023.12.010. Epub ahead of print. PMID: 38244005.
33. Malik S, Dakroub A, Singh M, **Parikh R**, Chung W, Henry M, Petrossian G, Robinson N, Khan JM. Transcatheter Mitral Valve Replacement in the Presence of Arteria Lusoria. *JACC Cardiovasc Interv*. 2024 Jun 25:S1936-8798(24)00863-X. doi: 10.1016/j.jcin.2024.06.006. Epub ahead of print. PMID: 38970583.
34. **Zheng H**, Mahmood SS, **Khalique OK**, Zhan H. Trastuzumab-Induced Cardiotoxicity: When and How Much Should We Worry? *JCO Oncol Pract*. 2024 Aug;20(8):1055-1063. doi: 10.1200/OP.23.00816. Epub 2024 Apr 25. PMID: 38662969.
35. **Goldfarb JW**, Mossa-Basha M, Nguyen KL, Hecht EM, Finn JP. Trends in magnetic resonance and computed tomography angiography utilization among Medicare beneficiaries between 2013 and 2020. *Clin Imaging*. 2024 Jan 20;107:110088. doi: 10.1016/j.clinimag.2024.110088. Epub ahead of print. PMID: 38277858.

2023

1. Nichols KJ, Yoon SY, **Van Tosh A**, Palestro CJ. 1-hour versus 3-hour <sup>99m</sup>Tc-PYP imaging to evaluate suspected cardiac transthyretin amyloidosis. *Medicine (Baltimore)*. 2023 May 19;102(20):e33817. doi: 10.1097/MD.00000000000033817. PMID: 37335725; PMCID: PMC10194626.
2. **Cao JJ**, Shen L, Nguyen J, Rapelje K, Porter C, Shlofmitz E, Jeremias A, Cohen DJ, Ali ZA, Shlofmitz R. Accuracy and limitation of plaque detection by coronary CTA: a section-to-section comparison with optical coherence tomography. *Sci Rep*. 2023 Jul 22;13(1):11845. doi: 10.1038/s41598-023-38675-9. PMID: 37481671; PMCID: PMC10363114.
3. **Barasch E**. Aortic Stenosis Associated with Hypertrophic Cardiomyopathy: A Double Trouble. *Cardiology*. 2023;148(3):287-288. doi: 10.1159/000530663. Epub 2023 Apr 14. PMID: 37062287.
4. **Cao JJ**, Nashta NF, Weber J, Bano R, Passick M, Cheng YJ, Schapiro W, Grgas M, Gliganic K. Association of pulmonary transit time by cardiac magnetic resonance with heart failure hospitalization in a large prospective cohort with diverse cardiac conditions. *J Cardiovasc Magn Reson*. 2023 Oct 12;25(1):57. doi: 10.1186/s12968-023-00963-8. PMID: 37821911; PMCID: PMC10568762.
5. Gogia S, Vahl TP, Thourani VH, Yadav PK, George I, Kodali SK, Hamid N, Ranard L, Chen T, Matsumura M, Maehara A, Treede H, Baldus S, Daniels D, Sheridan BC, Zahr F, Russo MJ, McCabe JM, Chetcuti SJ, Leon MB, Makkar RR, **Khalique OK**. Cardiac Computed Tomography Angiography Anatomical Characterization of Patients Screened for a Dedicated Transfemoral Transcatheter Valve System for Primary Aortic Regurgitation. *Struct Heart*. 2023 Mar 8;7(3):100164. doi: 10.1016/j.shj.2023.100164. PMID: 37273856; PMCID: PMC10236804.
6. **Zheng H**, Zhan H. Cardio-Oncology Guidelines and Strength of the Evidence. *JACC CardioOncol*. 2023 Feb 21;5(1):149-152. doi: 10.1016/j.jaccao.2022.12.001. PMID: 36875914; PMCID: PMC9982203.
7. Zaid S, Bapat VN, Sathananthan J, Landes U, De Backer O, Tarantini G, Grubb KJ, Kaneko T, **Khalique OK**, Jilaihawi H, Fukui M, Madhavan M, Cangut B, Harrington K, Thourani VH, Makkar RR, Leon MB, Mack MJ, Tang GHL. Challenges and Future Directions in Redo Aortic Valve Reintervention After Transcatheter Aortic Valve Replacement Failure. *Circ Cardiovasc Interv*. 2023 Nov;16(11):e012966. doi: 10.1161/CIRCINTERVENTIONS.123.012966. Epub 2023 Nov 21. PMID: 37988437.

8. **Zheng H**, Zhan H. ChatGPT in Scientific Writing: A Cautionary Tale. *Am J Med.* 2023 Aug;136(8):725-726.e6. doi: 10.1016/j.amjmed.2023.02.011. Epub 2023 Mar 10. PMID: 36906169.
9. Bai F, Pu J, Che W, Chen J, Chen M, Chen W, Chen X, Chen Y, Cheng X, Cheng X, Cong H, Dai C, Fan D, Fu G, Gao L, Gao C, Gao W, Ge J, He B, Hu T, Huang C, Huang J, Huo Y, Jia S, Jiang J, Jing Z, Kong X, Li L, Li Y, Li Y, Li Z, Liang C, Lin X, Liu X, Liu X, Lu C, Ma G, Ma Y, Mao W, Mei X, Ning Z, Ou J, Slaj S, Shen C, Shi H, Shi H, Shi B, Su X, Sun N, Tang Q, Wang F, Wang C, Wang J, Wu Y, Wu Y, Xia Y, Xiang D, Xiao P, Xie P, Xiong D, Xu Y, Yang J, Yang L, Yu Z, Yuan Z, Yuan H, Zhang G, Zhang H, Zhang J, Zhang L, Zhang R, Zhang S, Zhang S, Zhang Z, Zhao G, Zhao X, Zheng J, **Zheng H**, Zhou D, Zhou S, Zhou Y. 2023 Chinese expert consensus on the impact of COVID-19 on the management of cardiovascular diseases. *Cardiol Plus.* 2023 Apr-Jun;8(2):82-102. doi: 10.1097/CP9.000000000000043. Epub 2023 Jul 20. PMID: 37486153; PMCID: PMC10358441.
10. **Craft J**, **Li Y**, Nashta NF, Weber J. Comparison between compressed sensing and segmented cine cardiac magnetic resonance: a meta-analysis. *BMC Cardiovasc Disord.* 2023 Sep 21;23(1):473. doi: 10.1186/s12872-023-03426-1. PMID: 37735355; PMCID: PMC10512640.
11. Douglas PS, Nanna MG, Kelsey MD, Yow E, Mark DB, Patel MR, Rogers C, Udelson JE, Fordyce CB, Curzen N, Pontone G, Maurovich-Horvat P, De Bruyne B, Greenwood JP, Marinescu V, Leipsic J, Stone GW, Ben-Yehuda O, Berry C, Hogan SE, Redfors B, Ali ZA, Byrne RA, Kramer CM, Yeh RW, Martinez B, Mullen S, Huey W, Anstrom KJ, Al-Khalidi HR, Vemulapalli S; **PRECISE Investigators**. Comparison of an Initial Risk-Based Testing Strategy vs Usual Testing in Stable Symptomatic Patients With Suspected Coronary Artery Disease: The PRECISE Randomized Clinical Trial. *JAMA Cardiol.* 2023 Oct 1;8(10):904-914. doi: 10.1001/jamacardio.2023.2595. PMID: 37610731; PMCID: PMC10448364.
12. **Arguelles E**, **Mihalatos D**, **Leung A**, Colangelo RG, Jayam V, **Fujikura K**. Congenital Absence of the Left Atrial Appendage: Role of Multimodality Imaging. *CASE (Phila).* 2023 Mar 7;7(6):220-225. doi: 10.1016/j.case.2023.01.003. PMID: 37396472; PMCID: PMC10307590.
13. Udelson JE, Kelsey MD, Nanna MG, Fordyce CB, Yow E, Clare RM, Mark DB, Patel MR, Rogers C, Curzen N, Pontone G, Maurovich-Horvat P, De Bruyne B, Greenwood JP, Marinescu V, Leipsic J, Stone GW, Ben-Yehuda O, Berry C, Hogan SE, Redfors B, Ali ZA, Byrne RA, Kramer CM, Yeh RW, Martinez B, Mullen S, Huey W, Anstrom KJ, Al-Khalidi HR, Chiswell K, Vemulapalli S, Douglas PS; **PRECISE Investigators**. Deferred Testing in Stable Outpatients With Suspected Coronary Artery Disease: A Prespecified Secondary Analysis of the PRECISE Randomized Clinical

- Trial. *JAMA Cardiol.* 2023 Oct 1;8(10):915-924. doi: 10.1001/jamacardio.2023.2614. PMID: 37610768; PMCID: PMC10448368.
14. Sato T, Yamamoto K, Matsumura M, Shlofmitz E, **Khalique OK**, Mintz GS, Shlofmitz RA, Jeremias A, Ali ZA, Maehara A. Discrimination of Calcified Nodule as a Cause of Coronary Angiographic Radiolucent Mass. *JACC Cardiovasc Interv.* 2023 Aug 14;16(15):1948-1949. doi: 10.1016/j.jcin.2023.04.013. Epub 2023 Jul 5. PMID: 37409997.
  15. **Chen LQ**, Nichols KJ, **Van Tosh A**. Exercise ECG must be considered in conjunction with conventional SPECT. *J Nucl Cardiol.* 2023 Oct;30(5):2245-2247. doi: 10.1007/s12350-022-03181-4. Epub 2023 Jan 17. PMID: 36650318.
  16. Tang GHL, Zaid S, Kleiman NS, Goel SS, Fukuhara S, Marin-Cuartas M, Kiefer P, Abdel-Wahab M, De Backer O, Søndergaard L, Saha S, Hagl C, Wyler von Ballmoos M, Bhadra O, Conradi L, Grubb KJ, Shih E, DiMaio JM, Szerlip M, Vitanova K, Ruge H, Unbehaun A, Kempfert J, Pirelli L, Klinger CA, Van Mieghem N, Hokken TW, Adrichem R, Modine T, Corona S, **Wang L**, Petrossian G, Robinson N, Meier D, Webb JG, Cheung A, Ramlawi B, Herrmann HC, Desai ND, Andreas M, Mach M, Waksman R, Schults CC, Ahmad H, Goldberg JB, Geirsson A, Forrest JK, Denti P, Belluschi I, Ben-Ali W, Asgar AW, Taramasso M, Rovin JD, Di Eusanio M, Colli A, Kaneko T, Nazif TN, Leon MB, Bapat VN, Mack MJ, Reardon MJ, Sathananthan J. Explant vs Redo-TAVR After Transcatheter Valve Failure: Mid-Term Outcomes From the EXPLANTORREDO-TAVR International Registry. *JACC Cardiovasc Interv.* 2023 Apr 24;16(8):927-941. doi: 10.1016/j.jcin.2023.01.376. PMID: 37100556.
  17. Sato T, Matsumura M, Yamamoto K, Shlofmitz E, Moses JW, **Khalique OK**, Thomas SV, Tsoulis A, Cohen DJ, Mintz GS, Shlofmitz RA, Jeremias A, Ali ZA, Maehara A. Impact of Eruptive vs Noneruptive Calcified Nodule Morphology on Acute and Long-Term Outcomes After Stenting. *JACC Cardiovasc Interv.* 2023 May 8;16(9):1024-1035. doi: 10.1016/j.jcin.2023.03.009. PMID: 37164599.
  18. Abdelhaleem A, **Leung A**, Nguyen J, Schapiro W, **Khalique O**, Bercow N, **Cao JJ**, Kadiyala M. Left ventricular aneurysm versus pseudoaneurysm: Diagnosis in the era of multi-modality imaging and 3D-printing. *Echocardiography.* 2023 Feb;40(2):137-142. doi: 10.1111/echo.15523. Epub 2023 Jan 17. PMID: 36647761.
  19. **Craft J**, Weber J, **Cao JJ**, Passick M, Ngai N, Bond K, **Khalique OK**, **Barasch E**. Left Ventricular Mass, Myocardial Structure, and Function in Severe Aortic Stenosis: an Echocardiographic and Cardiac Magnetic Resonance Imaging Study. *Am J Cardiol.* 2023 Oct 15;205:311-320. doi: 10.1016/j.amjcard.2023.08.015. Epub 2023 Aug 24. PMID: 37633066.
  20. **Onuegbu A**, Calicchio F, Kinneringer A, Nakanishi R, Carr JJ, Nasir K, Gottesman R, Budoff M. Mitral annular calcification as a predictor of

- stroke in the multiethnic study of atherosclerosis. *J Cardiovasc Med (Hagerstown)*. 2023 Sep 1;24(9):680-688. doi: 10.2459/JCM.0000000000001524. Epub 2023 Jul 5. PMID: 37409651.
21. Vidula MK, Rajewska-Tabor J, **Cao JJ**, Kang Y, **Craft J**, Mei W, Chandrasekaran PS, Clark DE, Poenar AM, Gorecka M, Malahfji M, Cowan E, Kwan JM, Reinhardt SW, Al-Tabatabaee S, Doeblin P, Villa ADM, Karagodin I, Alvi N, Christia P, Spetko N, Cassar MP, Park C, Nambiar L, Turgut A, Azad MR, Lambers M, Wong TC, Salerno M, Kim J, Elliott M, Raman B, Neubauer S, Tsao CW, LaRocca G, Patel AR, Chiribiri A, Kelle S, Baldassarre LA, Shah DJ, Hughes SG, Tong MS, Pyda M, Simonetti OP, Plein S, Han Y. Myocardial Injury on CMR in Patients With COVID-19 and Suspected Cardiac Involvement. *JACC Cardiovasc Imaging*. 2023 May;16(5):609-624. doi: 10.1016/j.jcmg.2022.10.021. Epub 2023 Jan 11. PMID: 36752429; PMCID: PMC9833283.
  22. van Rosendael AR, Crabtree T, Bax JJ, Nakanishi R, Mushtaq S, Pontone G, Andreini D, Buechel RR, Gräni C, Feuchtner G, Patel TR, Choi AD, Al-Mallah M, Nabi F, Karlsberg RP, Rochitte CE, Alasnag M, Hamdan A, Cademartiri F, Marques H, Kalra D, German DM, Gupta H, Hadamitzky M, Deaño RC, **Khalique O**, Knaapen P, Hoffmann U, Earls J, Min JK, Danad I; CONFIRM 2 investigators. Rationale and design of the CONFIRM2 (Quantitative COroNary CT Angiography Evaluation For Evaluation of Clinical Outcomes: An InteRnational, Multicenter Registry) study. *J Cardiovasc Comput Tomogr*. 2023 Nov 10:S1934-5925(23)00454-9. doi: 10.1016/j.jcct.2023.10.004. Epub ahead of print. PMID: 37951725.
  23. Dershowitz L, Lawlor MK, Hamid N, Kampaktsis P, Ning Y, Vahl TP, Nazif T, **Khalique O**, Ng V, Kurlansky P, Leon M, Hahn R, Kodali S, George I. Right ventricular remodeling and clinical outcomes following transcatheter tricuspid valve intervention. *Catheter Cardiovasc Interv*. 2024 Feb;103(2):367-375. doi: 10.1002/ccd.30850. Epub 2023 Oct 27. PMID: 37890014.
  24. **Parikh R, Khalique O**. Selection of Ideal Candidates for Percutaneous Mitral Interventions. *Curr Cardiovascular Imaging Rep* 16, 65-70 (July 18, 2023). <https://doi.org/10.1007/s12410-023-09580-6>
  25. **Van Tosh A**, Nichols KJ. SPECT measurements of myocardial blood flow and flow reserve: from development to implementation. *J Nucl Cardiol*. 2023 Aug;30(4):1437-1442. doi: 10.1007/s12350-023-03273-9. Epub 2023 May 9. PMID: 37160851.
  26. Wang Y, Sun C, Ghadimi S, Auger DC, Croisille P, Viallon M, Mangion K, Berry C, Haggerty CM, Jing L, Fornwalt BK, **Cao JJ**, Cheng J, Scott AD, Ferreira PF, Oshinski JN, Ennis DB, Bilchick KC, Epstein FH. StrainNet: Improved Myocardial Strain Analysis of Cine MRI by Deep Learning from DENSE. *Radiol Cardiothorac Imaging*. 2023 May 4;5(3):e220196. doi: 10.1148/ryct.220196. PMID: 37404792; PMCID: PMC10316292.

27. Zaid S, Hirji SA, Bapat VN, Denti P, Modine T, Nguyen TC, Mack MJ, Reardon MJ, Kaneko T, Tang GHL; **EXPLANT-TAVR Investigators**. Surgical Explantation of Failed Transcatheter Aortic Valve Replacement. *Ann Thorac Surg*. 2023 Nov;116(5):933-942. doi: 10.1016/j.athoracsur.2023.05.036. Epub 2023 Jun 22. PMID: 37354965.
28. **Fahim MA, Wang L**, Petrossian G, **Khalique O**, Robinson N, Khan J, **Fujikura K**. Transcatheter Closure of Left Ventricular Outflow Tract Pseudoaneurysm Compressing the Left Anterior Descending Artery. *JACC Cardiovasc Interv*. 2023 Dec 30:S1936-8798(23)01623-0. doi: 10.1016/j.jcin.2023.12.010. Epub ahead of print. PMID: 38244005.
29. Sorajja P, Whisenant B, Hamid N, Naik H, Makkar R, Tadros P, Price MJ, Singh G, Fam N, Kar S, Schwartz JG, Mehta S, Bae R, Sekaran N, Warner T, Makar M, Zorn G, Spinner EM, Trusty PM, Benza R, Jorde U, McCarthy P, Thourani V, Tang GHL, Hahn RT, Adams DH; **TRILUMINATE Pivotal Investigators**. Transcatheter Repair for Patients with Tricuspid Regurgitation. *N Engl J Med*. 2023 May 18;388(20):1833-1842. doi: 10.1056/NEJMoa2300525. Epub 2023 Mar 4. PMID: 36876753.
30. Hahn RT, Lawlor MK, Davidson CJ, Badhwar V, Sannino A, Spitzer E, Lurz P, Lindman BR, Topilsky Y, Baron SJ, Chadderdon S, **Khalique OK**, Tang GHL, Taramasso M, Grayburn PA, Badano L, Leipsic J, Lindenfeld J, Windecker S, Vemulapalli S, Redfors B, Alu MC, Cohen DJ, Rodés-Cabau J, Ailawadi G, Mack M, Ben-Yehuda O, Leon MB, Hausleiter J; TVARC Steering Committee. Tricuspid Valve Academic Research Consortium Definitions for Tricuspid Regurgitation and Trial Endpoints. *Ann Thorac Surg*. 2023 Nov;116(5):908-932. doi: 10.1016/j.athoracsur.2023.09.018. Epub 2023 Oct 4. PMID: 37804270.
31. **Zhang H**, Kafaiti N, Lee S, Masarik K, Zheng H, Zhan H. Unlocking the Role of Endothelial MPL Receptor and JAK2V617F Mutation: Insights into Cardiovascular Dysfunction in MPNs and CHIP. *bioRxiv [Preprint]*. 2023 Jul 13:2023.07.12.548716. doi: 10.1101/2023.07.12.548716. PMID: 37503259; PMCID: PMC10370015.
32. Dakroub A, Chung W, **Craft J**, Khan JM, Ali ZA, **Khalique O**. Zero Contrast Transcatheter Aortic Valve Replacement in Patients with Renal Dysfunction using a Novel, Multimodality Cardiovascular Imaging Approach. *Kidney Int Rep*. 2023 Aug 5;8(10):2168-2171. doi: 10.1016/j.ekir.2023.07.030. PMID: 37849994; PMCID: PMC10577364.
33. Hahn RT, Lawlor MK, Davidson CJ, Badhwar V, Sannino A, Spitzer E, Lurz P, Lindman BR, Topilsky Y, Baron SJ, Chadderdon S, **Khalique OK**, Tang GHL, Taramasso M, Grayburn PA, Badano L, Leipsic J, Lindenfeld J, Windecker S, Vemulapalli S, Redfors B, Alu MC, Cohen DJ, Rodés-Cabau J, Ailawadi G, Mack M, Ben-Yehuda O, Leon MB, Hausleiter J; TVARC Steering Committee. Tricuspid Valve Academic Research Consortium Definitions for Tricuspid Regurgitation and Trial Endpoints. *J Am Coll*

- Cardiol. 2023 Oct 24;82(17):1711-1735. doi: 10.1016/j.jacc.2023.08.008. Epub 2023 Oct 4. PMID: 37804294.
34. Hahn RT, Lawlor MK, Davidson CJ, Badhwar V, Sannino A, Spitzer E, Lurz P, Lindman BR, Topilsky Y, Baron SJ, Chadderdon S, **Khalique OK**, Tang GHL, Taramasso M, Grayburn PA, Badano L, Leipsic J, Lindenfeld J, Windecker S, Vemulapalli S, Redfors B, Alu MC, Cohen DJ, Rodés-Cabau J, Ailawadi G, Mack M, Ben-Yehuda O, Leon MB, Hausleiter J. Tricuspid Valve Academic Research Consortium Definitions for Tricuspid Regurgitation and Trial Endpoints. *Eur Heart J*. 2023 Nov 14;44(43):4508-4532. doi: 10.1093/eurheartj/ehad653. PMID: 37793121; PMCID: PMC10645050.
  35. Fandaros M, **Li YY**, **Cao JJ**, Yin W. A spatiotemporal analysis of the left coronary artery biomechanics using fluid-structure interaction models. *Med Biol Eng Comput*. 2023 Jun;61(6):1533-1548. doi: 10.1007/s11517-023-02791-5. Epub 2023 Feb 15. PMID: 36790640.
  36. Lovell JP, Bermea K, Yu J, Rousseau S, Cohen CD, Bhalodia A, Zita MD, Head RD, Blumenthal RS, Alharethi R, Damp J, Boehmer J, Alexis J, McNamara DM, Sharma G, Adamo L; IPAC; **IMAC2 Investigators**. Serum Proteomic Analysis of Peripartum Cardiomyopathy Reveals Distinctive Dysregulation of Inflammatory and Cholesterol Metabolism Pathways. *JACC Heart Fail*. 2023 Sep;11(9):1231-1242. doi: 10.1016/j.jchf.2023.05.031. Epub 2023 Aug 2. PMID: 37542511.

## 2022

1. Nichols KJ, Yoon SY, **Van Tosh A**, Palestro CJ. 99mTc-PYP SPECT and SPECT/CT quantitation for diagnosing cardiac transthyretin amyloidosis. *J Nucl Cardiol*. 2023 Jun;30(3):1235-1245. doi: 10.1007/s12350-022-03133-y. Epub 2022 Nov 9. PMID: 36352087.
2. Qi Y, Wang F, **Cao JJ**, **Li YY**. A deep learning approach to real-time volumetric measurements without image reconstruction for cardiovascular magnetic resonance. *Physiol Meas*. 2022 Oct 6;43(10). doi: 10.1088/1361-6579/ac92bc. PMID: 36113450.
3. Vitanova K, Zaid S, Tang GHL, Kaneko T, Bapat VN, Modine T, Denti P; **EXPLANT-TAVR Investigators**. Aortic valve versus root surgery after failed transcatheter aortic valve replacement. *J Thorac Cardiovasc Surg*. 2023 Nov;166(5):1418-1430.e4. doi: 10.1016/j.jtcvs.2021.12.060. Epub 2022 Mar 26. PMID: 35525801.
4. Calicchio F, **Onuegbu A**, Kinninger A, Shou MS, Golub I, Petronio AS, Tadic M, Budoff MJ. Arterial stiffness and left ventricular structure assessed by cardiac computed tomography in a multiethnic population. *J Cardiovasc Med (Hagerstown)*. 2022 Apr 1;23(4):228-233. doi: 10.2459/JCM.0000000000001272. PMID: 35287157.

5. **Zheng H.** Assessing Pharmacologic Treatment Effect From a Meta-Analysis in Heart Failure. *JACC Heart Fail.* 2022 Jul;10(7):527. doi: 10.1016/j.jchf.2022.02.018. PMID: 35772865.
6. **Ren XL,** Liu Y, Chu WJ, Li ZW, Zhang SS, Zhou ZL, Tang J, Yang B. Blood levels of omega-6 fatty acids and coronary heart disease: a systematic review and metaanalysis of observational epidemiology. *Crit Rev Food Sci Nutr.* 2023;63(26):7983-7995. doi: 10.1080/10408398.2022.2056867. Epub 2022 Apr 5. PMID: 35380474.
7. **Zheng H.** Cardiovascular Benefits of Digoxin and Empagliflozin in Patients with Chronic Heart Failure: The DIG Trial Revisited. *Am J Med.* 2022 Jun;135(6):670-672. doi: 10.1016/j.amjmed.2022.01.050. Epub 2022 Feb 27. PMID: 35235821.
8. **Van Tosh, A., Cao, J. J.,** Votaw, J. R., Cooke, C. D., Palestro, C. J., & Nichols, K. J. (2022). Clinical implications of compromised 82Rb PET data acquisition. *Journal of nuclear cardiology : official publication of the American Society of Nuclear Cardiology*, 29(5), 2583–2594. <https://doi.org/10.1007/s12350-021-02774-9>
9. Stojanovska J, Topaloglu N, **Fujikura K,** Khazai B, Ibrahim ES, Tsodikov A, Bhave NM, Koliass TJ. Decreased Left Atrial Reservoir Strain Is Associated with Adverse Outcomes in Restrictive Cardiomyopathy. *J Clin Med.* 2022 Jul 15;11(14):4116. doi: 10.3390/jcm11144116. PMID: 35887884; PMCID: PMC9316068.
10. Elias P, Poterucha TJ, Rajaram V, Moller LM, Rodriguez V, Bhave S, Hahn RT, Tison G, Abreau SA, Barrios J, Torres JN, Hughes JW, Perez MV, Finer J, Kodali S, **Khalique O,** Hamid N, Schwartz A, Homma S, Kumaraiah D, Cohen DJ, Maurer MS, Einstein AJ, Nazif T, Leon MB, Perotte AJ. Deep Learning Electrocardiographic Analysis for Detection of Left-Sided Valvular Heart Disease. *J Am Coll Cardiol.* 2022 Aug 9;80(6):613-626. doi: 10.1016/j.jacc.2022.05.029. PMID: 35926935.
11. Brener MI, Hamandi M, Hong E, Pizano A, Harloff MT, Garner EF, El Sabbagh A, Kaple RK, Geirsson A, Deaton DW, Islam AM, Veeregandham R, Bapat V, **Khalique OK,** Ning Y, Kurlansky PA, Grayburn PA, Nazif TM, Kodali SK, Leon MB, Borger MA, Lee R, Kohli K, Yoganathan AP, Colli A, Guerrero ME, Davies JE, Eudailey KW, Kaneko T, Nguyen TC, Russell H, Smith RL 3rd, George I. Early outcomes following transatrial transcatheter mitral valve replacement in patients with severe mitral annular calcification. *J Thorac Cardiovasc Surg.* 2022 Aug 20:S0022-5223(22)00832-7. doi: 10.1016/j.jtcvs.2022.07.038. Epub ahead of print. PMID: 36153166.
12. Christian TF, Marfatia R, **Chen LQ, Onuegbu AG,** Pollack S, **Cao J.** Harmonizing multimodality imaging results using Bayesian analysis: the case of CT coronary angiography and CT-derived fractional flow reserve.

- Int J Cardiovasc Imaging. 2022 Jan 29. doi: 10.1007/s10554-022-02530-1. Epub ahead of print. PMID: 35092523.
13. Ojha V, **Khalique OK**, Khurana R, Lorenzatti D, Leung SW, Lawton B, Slesnick TC, Cavalcante JC, Ducci CB, Patel AR, Prieto CC, Plein S, Raman SV, Salerno M, Parwani P. Highlights of the Virtual Society for Cardiovascular Magnetic Resonance 2022 Scientific Conference: CMR: improving cardiovascular care around the world. J Cardiovasc Magn Reson. 2022 Jun 20;24(1):38. doi: 10.1186/s12968-022-00870-4. PMID: 35725565; PMCID: PMC9207863.
  14. Ranard LS, Vahl TP, Chung CJ, Sadri S, **Khalique OK**, Hamid N, Nazif T, George I, Ng V, Patel A, Rezende CP, Reisman M, Latib A, Hausleiter J, Sorajja P, Bapat VN, Tang GHL, Davidson CJ, Zahr F, Makkar R, Fam NP, Granada JF, Leon MB, Hahn RT, Kodali S. Impact of inferior vena cava entry characteristics on tricuspid annular access during transcatheter interventions. Catheter Cardiovasc Interv. 2022 Mar;99(4):1268-1276. doi: 10.1002/ccd.30048. Epub 2022 Jan 27. PMID: 35084803.
  15. Cahill TJ, Pibarot P, Yu X, Babaliaros V, Blanke P, Clavel MA, Douglas PS, **Khalique OK**, Leipsic J, Makkar R, Alu MC, Kodali S, Mack MJ, Leon MB, Hahn RT. Impact of Right Ventricle-Pulmonary Artery Coupling on Clinical Outcomes in the PARTNER 3 Trial. JACC Cardiovasc Interv. 2022 Sep 26;15(18):1823-1833. doi: 10.1016/j.jcin.2022.07.005. PMID: 36137685.
  16. Ranard LS, Guber K, **Khalique OK**, Leb J, Hamid N, Donald E, Hahn RT, Forman J, Ng V, Leon MB, Sommer R, Vahl TP. Improved Left Atrial Appendage Closure With the New-Generation WATCHMAN FLX by Cardiac Computed Tomography Angiography at 45 Days Postimplant. Circ Cardiovasc Interv. 2022 Apr;15(4):e011727. doi: 10.1161/CIRCINTERVENTIONS.121.011727. Epub 2022 Mar 22. PMID: 35313734.
  17. Lawlor MK, Hamid N, Kampaktsis P, Ning Y, Wang V, Akkoc D, Dershowitz L, Placheril E, Vahl TP, Nazif T, **Khalique O**, Ng V, Brener MI, Burkhoff D, Dickstein M, Kurlansky P, Leon MB, Hahn RT, Kodali S, George I. Incidence and predictors of cardiogenic shock following surgical or transcatheter tricuspid valve intervention. Catheter Cardiovasc Interv. 2022 Apr;99(5):1668-1678. doi: 10.1002/ccd.30073. Epub 2022 Jan 23. PMID: 35066989.
  18. **Van Tosh A, Khalique O**, Cooke CD, Palestro CJ, Nichols KJ. Indicators of abnormal PET coronary flow capacity in detecting cardiac ischemia. Int J Cardiovasc Imaging. 2023 Mar;39(3):631-639. doi: 10.1007/s10554-022-02755-0. Epub 2022 Dec 21. PMID: 36543909.
  19. **Zheng H**. It Is Time to Abandon the Use of Body Surface Area Derived From a 100-Year-Old Formula. Am J Med. 2022 Sep;135(9):e308-e310. doi: 10.1016/j.amjmed.2022.03.035. Epub 2022 Apr 23. PMID: 35472387.

20. **Li YY, Craft J**, Cheng YJ, Gliganic K, Schapiro W, **Cao JJ**. Left Ventricle Wall Motion Analysis with Real-Time MRI Feature Tracking in Heart Failure Patients: A Pilot Study. *Diagnostics (Basel)*. 2022 Nov 25;12(12):2946. doi: 10.3390/diagnostics12122946. PMID: 36552955; PMCID: PMC9776889.
21. Kochav JD, Kim J, Judd R, Tak KA, Janjua E, Maciejewski AJ, Kim HW, Klem I, Heitner J, Shah D, Zoghbi WA, Shenoy C, Farzaneh-Far A, Polsani V, Villar-Calle P, Parker M, Judd KM, **Khalique OK**, Leon MB, Devereux RB, Levine RA, Kim RJ, Weinsaft JW. Myocardial Contractile Mechanics in Ischemic Mitral Regurgitation: Multicenter Data Using Stress Perfusion Cardiovascular Magnetic Resonance. *JACC Cardiovasc Imaging*. 2022 Jul;15(7):1212-1226. doi: 10.1016/j.jcmg.2022.03.014. Epub 2022 May 11. PMID: 35798397; PMCID: PMC9273017.
22. **Fujikura K**, Cheng AL, Suriyany S, Detterich J, Arai AE, Wood JC. Myocardial Iron Overload Causes Subclinical Myocardial Dysfunction in Sickle Cell Disease. *JACC Cardiovasc Imaging*. 2022 Aug;15(8):1510-1512. doi: 10.1016/j.jcmg.2022.02.019. Epub 2022 May 11. PMID: 35926908; PMCID: PMC9726199.
23. **Goldfarb JW**. National trends in contrast media enhanced and unenhanced computed tomography use. *Clin Imaging*. 2023 Jan;93:103-105. doi: 10.1016/j.clinimag.2022.11.009. Epub 2022 Nov 17. PMID: 36427426.
24. Siddiqi TJ, Khan MS, Karimi Galougahi K, Shlofmitz E, Moses JW, Rao S, West NEJ, Wolff E, Hochler J, Chau K, **Khalique O**, Shlofmitz RA, Jeremias A, Ali ZA. Optical coherence tomography versus angiography and intravascular ultrasound to guide coronary stent implantation: A systematic review and meta-analysis. *Catheter Cardiovasc Interv*. 2022 Nov;100 Suppl 1:S44-S56. doi: 10.1002/ccd.30416. Epub 2022 Oct 17. PMID: 36251325.
25. **Li YY, Craft J**, Cheng Y, Schapiro W, Gliganic K, Haag E, **Cao JJ**. Optical Flow Analysis of Left Ventricle Wall Motion with Real-Time Cardiac Magnetic Resonance Imaging in Healthy Subjects and Heart Failure Patients. *Ann Biomed Eng*. 2022 Feb;50(2):195-210. doi: 10.1007/s10439-022-02907-2. Epub 2022 Jan 12. PMID: 35022866.
26. Liu J, **Fujikura K**, Dev H, Riyahi S, Blumenfeld J, Kim J, Rennert H, Prince MR. Pericardial Effusion on MRI in Autosomal Dominant Polycystic Kidney Disease. *J Clin Med*. 2022 Feb 21;11(4):1127. doi: 10.3390/jcm11041127. PMID: 35207400; PMCID: PMC8879333.
27. Chen, Z., Matsumura, M., Mintz, G. S., Noguchi, M., Fujimura, T., Usui, E., Seike, F., Hu, X., Jin, G., Li, C., Salem, H., Fall, K. N., Shlofmitz, E., Kirtane, A. J., **Cao, J. J.**, Moses, J. W., Ali, Z. A., Jeremias, A., Shlofmitz, R. A., & Maehara, A. (2022). Prevalence and Impact of Neoatherosclerosis on Clinical Outcomes After Percutaneous Treatment of Second-

- Generation Drug-Eluting Stent Restenosis. *Circulation. Cardiovascular interventions*, 15(9), e011693.  
<https://doi.org/10.1161/CIRCINTERVENTIONS.121.011693>
28. Gottdiener JS, Buzkova P, Kahn PA, DeFilippi C, Shah S, **Barasch E**, Kizer JR, Psaty B, Gardin JM. Relation of Cigarette Smoking and Heart Failure in Adults  $\geq 65$  Years of Age (From the Cardiovascular Health Study). *Am J Cardiol*. 2022 Apr 1;168:90-98. doi: 10.1016/j.amjcard.2021.12.021. Epub 2022 Jan 16. PMID: 35045935; PMCID: PMC8930705.
  29. Shearer Michael, Petrossian, George A, Chung, William Berke, Andrew D, Bond, Kristine, Michael Passick, **Dennis Mihalatos**, Jonathan Weber, **Lin Wang**. Right Ventricular Pulmonary Arterial Coupling and Hemodynamic Effects in Patients Undergoing Transcatheter Mitral Edge-to-Edge Repair. *JASE Volume 35 No 7*. e69 2022
  30. Van Mieghem NM, Deeb GM, Søndergaard L, Grube E, Windecker S, Gada H, Mumtaz M, Olsen PS, Heiser JC, Merhi W, Kleiman NS, Chetcuti SJ, Gleason TG, Lee JS, Cheng W, Makkar RR, Crestanello J, George B, George I, Kodali S, Yakubov SJ, Serruys PW, Lange R, Piazza N, Williams MR, Oh JK, Adams DH, Li S, Reardon MJ; **SURTAVI Trial Investigators**. Self-expanding Transcatheter vs Surgical Aortic Valve Replacement in Intermediate-Risk Patients: 5-Year Outcomes of the SURTAVI Randomized Clinical Trial. *JAMA Cardiol*. 2022 Oct 1;7(10):1000-1008. doi: 10.1001/jamacardio.2022.2695. PMID: 36001335; PMCID: PMC9403849.
  31. Johnson JN, Loriaux DB, Jenista E, Kim HW, Baritussio A, De Garate Iparraguirre E, Bucciarelli-Ducci C, Denny V, O'Connor B, Siddiqui S, **Fujikura K**, Benton CW, Weinsaft JW, Kochav J, Kim J, Madamanchi C, Steigner M, Kwong R, Chango-Azanza D, Chapa M, Rosales-Uvera S, Sitwala P, Filev P, Sahu A, **Craft J**, Punnakudiyil GJ, Jayam V, Shams F, Hughes SG, Lee JCY, Hulten EA, Steel KE, Chen SSM. Society for Cardiovascular Magnetic Resonance 2021 cases of SCMR and COVID-19 case collection series. *J Cardiovasc Magn Reson*. 2022 Jul 4;24(1):42. doi: 10.1186/s12968-022-00872-2. PMID: 35787291; PMCID: PMC9251594.
  32. Lee JC, Geske JB, Narang A, **Khalique OK**, Choi AD, Sun YP, Cavalcante JL, Pinto DS, Gafoor SA, Jagasia DH, DiCarli MF, Villines TC, Little SH, Hahn RT, Wang DD. Structural Heart Imaging Survey Highlights: Training, Challenges, and Practice Patterns in Interventional Imaging. *JACC Cardiovasc Imaging*. 2023 Feb;16(2):255-258. doi: 10.1016/j.jcmg.2022.09.003. Epub 2022 Nov 16. PMID: 36648041.
  33. **Li YY**, Rashid S, **Craft J**, Cheng YJ, Schapiro W, Gliganic K, Yamashita AM, Grgas M, Haag E, **Cao JJ**. Temporospatial characterization of ventricular wall motion with real-time cardiac magnetic resonance imaging in health and disease. *Sci Rep*. 2022 Mar 8;12(1):4070. doi: 10.1038/s41598-022-08094-3. PMID: 35260729; PMCID: PMC8904443.

34. **Chen L**, Scheiner J, Nashta N, et al. THE ASSOCIATION OF THORACIC FAT WITH LIPID CHANGE FROM STATIN THERAPY AND RISK OF LONG TERM ALL-CAUSE MORTALITY. *J Am Coll Cardiol.* 2022 Mar, 79 (9\_Supplement) 1241.
35. **Barasch E**, Gottdiener JS, Tressel W, Bartz TM, Buzkova P, Massera D, deFilippi C, Biggs ML, Psaty BM, Kizer JR, Owens D. The Associations of Aortic Valve Sclerosis, Aortic Annular Increased Reflectivity, and Mitral Annular Calcification with Subsequent Aortic Stenosis in Older Individuals: Findings from the Cardiovascular Health Study. *J Am Soc Echocardiogr.* 2023 Jan;36(1):41-49.e1. doi: 10.1016/j.echo.2022.08.013. Epub 2022 Sep 10. PMID: 36096340; PMCID: PMC9822849.
36. Agha AM, Pacor J, Grandhi GR, Mszar R, Khan SU, **Parikh R**, Agrawal T, Burt J, Blankstein R, Blaha MJ, Shaw LJ, Al-Mallah MH, Brackett A, Cainzos-Achirica M, Miller EJ, Nasir K. The Prognostic Value of CAC Zero Among Individuals Presenting With Chest Pain: A Meta-Analysis. *JACC Cardiovasc Imaging.* 2022 Oct;15(10):1745-1757. doi: 10.1016/j.jcmg.2022.03.031. Epub 2022 Jun 15. PMID: 36202453.
37. Nemshah Y, Sharma A, Hamid N, Rahim H, Ng V, George I, Nazif T, Vahl T, Kodali S, Hahn R, **Khalique O**. Unearthing the Tunnel. *JACC Case Rep.* 2022 Feb 16;4(4):241-246. doi: 10.1016/j.jaccas.2021.12.021. PMID: 35199025; PMCID: PMC8855135.
38. Einstein AJ, Hirschfeld C, Williams MC, Vitola JV, Better N, Villines TC, Cerci R, Shaw LJ, Choi AD, Dorbala S, Karthikeyan G, Lu B, Sinitsyn V, Ansheles AA, Kudo T, Bucciarelli-Ducci C, Nørgaard BL, Maurovich-Horvat P, Campisi R, Milan E, Louw L, Allam AH, Bhatia M, Sewanan L, Malkovskiy E, Cohen Y, Randazzo M, Narula J, Morozova O, Pascual TNB, Pynda Y, Dondi M, Paez D; **INCAPS COVID 2 Investigators Group**. Worldwide Disparities in Recovery of Cardiac Testing 1 Year Into COVID-19. *J Am Coll Cardiol.* 2022 May 24;79(20):2001-2017. doi: 10.1016/j.jacc.2022.03.348. PMID: 35589162; PMCID: PMC9109706.