

The Atrium Health Sanger Heart & Vascular Institute Sports Cardiology Center is a world-renowned program with a focus on research and education. We have numerous peer-reviewed publications that further enhance our commitment to clinical excellence.

Peer-Reviewed Publications

1	Grubic N, Hill B, Phelan D , Baggish A, Dorian P, Johri AM. Bystander interventions and survival after exercise-related sudden cardiac arrest: a systematic review . Br J Sports Med 2022 Apr;56(7):410-416. PMID: 34853034.
2	Writing Committee, Gluckman TJ, Bhave NM, Allen LA, Chung EH, Spatz ES, Ammirati E, Baggish AL, Bozkurt B, Cornwell WK 3rd, Harmon KG, Kim JH, Lala A, Levine BD, Martinez MW, Onuma O, Phelan D , Puntmann VO, Rajpal S, Taub PR, Verma AK. 2022 ACC Expert Consensus Decision Pathway on Cardiovascular Sequelae of COVID-19 in Adults: Myocarditis and Other Myocardial Involvement, Post-Acute Sequelae of SARS-CoV-2 Infection, and Return to Play: A Report of the American College of Cardiology Solution Set Oversight Committee . J Am Coll Cardiol 2022 Mar 14;S0735-1097(22)00306-0. PMID: 35307156.
3	Parizher G, Phelan D , Emery MS. Left Ventricular Ejection Fraction in Athletes Compared to the World Alliance Societies of Echocardiography Normal Values . J Am Soc Echocardiogr 2022 Feb;35(2):234-235. PMID: 34627972
4	Phelan D , Kim JH, Drezner JA, Elliott MD, Martinez MW, Chung EH, Krishan S, Levine BD, Baggish AL. When to consider cardiac MRI in the evaluation of the competitive athlete after SARS-CoV-2 infection . Br J Sports Med. 2022 Jan 27: bjsports-2021-104750. doi: 10.1136/bjsports-2021-104750. PMID: 35086807.
5	Pasadyn SR, Roselli EE, Artis AS, Pasadyn CL, Phelan D , Blackstone EH From Court to Couch: Exercise and Quality of Life after Acute Type A Aortic Dissection . Aorta (Stamford) 2021 Oct 5. doi: 10.1055/s-0041-1731403. PMID: 34610642.
6	Martinez MW, Kim JH, Shah AB, Phelan D , Emery MS, Wasfy MM, Fernandez AB, Bunch TJ, Dean P, Danielian A, Krishnan S, Baggish AL, Eijsvogels TMH, Chung EH, Levine BD. Exercise-Induced Cardiovascular Adaptations and Approach to Exercise and Cardiovascular Disease: JACC State-of-the-Art Review . J Am Coll Cardiol. 2021 Oct 5;78(14):1453-1470. PMID: 34593128.
7	Parizher G, Phelan D , Ayers C, Goodwin R, Levine BD. A Video Enhanced, Electronic Modality for Preparticipation Examination of Young Athletes . Curr Sports Med Rep. 2021 Sep 1;20(9): 485-488. PMID: 34524192.
8	Lander BS, Phelan D , Martinez M, Dineen, EH Hypertrophic Cardiomyopathy: Update Through the Lens of Sports Cardiology . Curr Treat Options Cardio Med. 2021;23(8):53 PMID: 34054288.

9	Phelan D , Farokhani, A, Retallick R, Day C. “Shared-Decision-Making” in Athletes with known cardiac disease: Interpretation and Implementation in the Real World. Clin J Sport Med. 2021 Apr 7 PMID: 34009801.
10	Hammond BH, Aziz PF, Phelan D . Importance of Shared Decision Making for Return-to-Play after COVID-19. Circulation. 2021 Mar 16. PMID: 33724865.
11	Martinez MW, Tucker AM, Bloom OJ, Green G, DiFiori JP, Solomon G, Phelan D , Kim JH, Meeuwisse W, Sills AK, Rowe D, Bogoch II, Smith PT, Baggish AL, Putukian M, Engel DJ. Prevalence of Inflammatory Heart Disease Among Professional Athletes With Prior COVID-19 Infection Who Received Systematic Return-to-Play Cardiac Screening. JAMA Cardio 2021 Mar 4. PMID: 33662103.
12	Seshadri DR, Thom ML, Harlow ER, Gabbett TJ, Geletka BJ, Hsu JJ, Drummond CK, Phelan D , Voos JE Wearable Technology and Analytics as a Complementary Toolkit to Optimize Workload and to Reduce Injury Burden. Front Sports Act Living 2021 Jan 21;2:630576 PMID: 33554111.
13	Phelan D , Kim JH, Elliott MD, Wasfy MM, Paul Cremer, Johri, AJ, Emery M, Sengupta PS, Sharma S, Martinez MW, La Gerche A. Screening for Potential Cardiac Involvement in Competitive Athletes Recovering from COVID-19: An Expert Consensus Statement. JACC Cardiovasc Imaging 2020 Dec;13 (12):2635-2652 PMID: 33303102.
14	Symanski JD, Phelan D . A 21-year-old college football player with an abnormal ECG. http://www.acc.org . Nov 05, 2020.
15	Phelan D , Kim JH, Chung E. Return-to-Play Guidelines for Athletes After COVID-19 Infection-Reply. JAMA Cardiol. 2020 Nov 4. PMID 33146679.
16	Kim JH, Levine BD, Phelan D , Emery MS, Martinez MW, Chung EH, Thompson PD, Baggish AL. Coronavirus Disease 2019 and the Athletic Heart: Emerging Perspectives on Pathology, Risks, and Return to Play. JAMA Cardiol. 2020 Oct 26. doi: 10.1001/jamacardio.2020.5890 PMID 33104154.
17	Grubic N, Puskas J, Phelan D , Founier A, Martin LJ, Johri AM. Shock to the Heart: Psychological Implications and Applications of of Sudden Cardiac Death in the Young. Curr Cardiol Rep 2020 Oct 10;22(12)168 PMID: 33040200.
18	Mandsager K, Phelan D , Diab M, Baranowski B, Saliba W, Tarakji K, Jaber WA, Kajm M, Lindsay BD, Wazni O, Hussein AA. Outcomes of Pulmonary Vein Isolation in Athletes. JACC: Clinical EP August 12, 2020, 1176.
19	Kim JH, Phelan D . Poll: Return to Play in the Competitive Athlete Post COVID-19 Infection. http://www.acc.org . Sep 02, 2020.

20	Hsu JJ, Phelan D . Exercise in Aortopathy: How Should We Counsel Our Patients? http://www.acc.org . Aug 07, 2020.
21	Etiwy M, Akras Z, Gillinov L, Alashi A, Wang R, Blackburn G, Gillinov SM, Phelan D , Gillinov AM, Houghtaling PL, Javadikasgari H, Desai MY. Erratum to accuracy of wearable heart rate monitors in cardiac rehabilitation . <i>Cardiovasc Diagn Ther</i> . 2020 Jun;10(3):644-645. PMID: 32695646.
22	Emery MS, Phelan D , Martinez M. Exercise and Athletics in the COVID-19 Pandemic Era . http://www.acc.org . May 14, 2020.
23	Phelan D , Kim JH, Chung EH. A Game Plan for the Resumption of Sport and Exercise After Coronavirus Disease 2019 (COVID-19) Infection . <i>JAMA Cardiol</i> . 2020 May 13. <i>JAMA Cardiol</i> . 2020. PMID: 32402054.
24	Baggish AL, Battle RW, Beaver TA, Border WL, Douglas PS, Kramer CM, Martinez MW, Mercandetti JH, Phelan D , Singh TK, Weiner RB, Williamson E. Recommendations on the Use of Multimodality Cardiovascular Imaging in Young Adult Competitive Athletes: A Report from the American Society of Echocardiography in Collaboration with the Society of Cardiovascular Computed Tomography and the Society for Cardiovascular Magnetic Resonance . <i>J Am Soc Echocardiogr</i> . 2020 May;33(5):523-549. PMID: 32362332.
25	Pasadyn SR, Roselli EE, Artis AS, Pasadyn CL, Phelan D , Hurley K, Desai MY, Blackstone EH. From Tear to Fear: Posttraumatic Stress Disorder in Patients With Acute Type A Aortic Dissection . <i>J Am Heart Assoc</i> . 2020 May 5;9(9). <i>J Am Heart Assoc</i> . 2020. PMID: 32340520.
26	Linder SM, Davidson S, Rosenfeldt A, Penko A, Lee J, Koop MM, Phelan D , Alberts JL. Predictors of improved aerobic capacity in individuals with chronic stroke participating in cycling interventions . <i>Arch Phys Med Rehabil</i> 2019 Nov 25. PMID 3177865.
27	Pasadyn SR, Soudan M, Gillinov M, Houghtaling P, Phelan D , Gillinov N, Bittel B, Desai MY. Accuracy of commercially available heart rate monitors in athletes: a prospective study . <i>Cardiovasc Diagn Ther</i> . 2019 Aug;9(4):379-385 PMID: 31555543.
28	Aagaard P, Sharma S, McNamara DA, Joshi P, Ayers CR, deLemos JA, Lincoln AE, Baranowski B, Mandsager K, Hill E, Castle L, Gentry J 3rd, Lang R, Dunn RE, Alexander K, Tucker AM, Phelan D . Arrhythmias and Adaptations of the cardiac conduction system in former National Football League Players . <i>J Am Heart Assoc</i> . 2019 Aug 6;(15). PMID 31337251.
29	Shah NP, Verma BR, Ala CK, Khayata M, Phelan D , Imazio M, Klein A. Exercise is good for the heart but bad for the inflamed pericardium . <i>JACC Cardiovasc Imaging</i> 2019 Sep;12(9):1880-1881. PMID 3087417.

30	Mandsager K, Harb S, Cremer P, Phelan D , Nissen SE, Jaber WA. Association of cardiorespiratory fitness with long-term mortality among adults undergoing exercise treadmill testing . JAMA Netw Open. 2018 Oct 5;1 PMID 30848252.
31	Sharalaya Z, Phelan D . Cardiac Risk of Extreme Exercise . Sports Med and Arthros Rev. 2019 Mar;27(1) PMID: 3080197 .
32	Hill E, Mohadjer A, Aagaard P, Bhargava M, Baranowski B, Phelan D . Wolff-Parkinson-White Pattern on the Pre-Participation Electrocardiogram . European Journal of Sports Medicine August 2018.
33	Donnellan E, Phelan D . Biomarkers of Cardiac Stress and Injury in Athletes: What do they mean? Curr Heart Fail Rep. 2018 Apr;15(2):116-122. PMID 29520707.
34	Shah N, Phelan D . Myocarditis in the Athlete . 2018 Jan 31. American College of Cardiology, Sports and Exercise Cardiology acc.org.
35	Waase MP, Mutharasan RK, Whang W, DiTullio MR, DiFiori JP, Callahan L, Mancell J, Phelan D , Schwartz A, Homma S, Engel DJ. Electrocardiographic Findings in National Basketball Association Athletes . JAMA Cardiol. 2017 Dec 6. PMID 29214319.
36	Gentry III JL, Carruthers D, Joshi P, Maroules C, Ayers C, De Lemos J, Aagaard P, Hachamovitch R, Desai M, Roselli E, Dunn R, Alexander K, Lincoln A, Tucker A, Phelan D . Ascending Aortic Dimensions in Former National Football League Athletes . Circ Cardiovasc Imaging. Nov 10. PMID 29122845.
37	Hedley J, Phelan D . Athletes and the Aorta: Normal Adaptations and the Diagnosis and Management of Pathology . Current Treatment Option in Cardiovascular Medicine. 2017 Oct 9;19(11):88. PMID: 29024716.
38	Gillinov S, Etiwy M, Wang R, Blackburn G, Phelan D , Gillinov AM, Houghtaling P, Javadikasgari H, Desai MY. Variable Accuracy of Wearable Heart Rate Monitors during Aerobic Exercise . Med Sci Sports Exerc. 2017 Aug;49(8):1697-1703 PMID: 28709155.
39	Mohananey D, Masri A, Desai RM, Dalal S, Phelan D , Kanj M, Wazni O, Griffin BP, Desai MY. Global Incidence of Sports-Related Sudden Cardiac Death . J Am Coll Cardiol. 2017 May 30;69(21):2672-2673 PMID 28545643.
40	Shah N, Phelan D . Physical Activity Recommendations on Patients with Acute Pericarditis. Expert Analysis . American College of Cardiology, Sports and Exercise Cardiology acc.org. This work was recognized in the Top 10 Clinical Content for 2017.

41	Wang R, Blackburn G, Desai M, Phelan D , Gillinov L, Houghtaling P, Gillinov M. Accuracy of Wrist-Worn Heart Rate Monitors . JAMA Cardiol. 2017 Jan 1;2(1):104-106. PMID: 27732703.
42	Aagaard P, Phelan D . Athlete Screening for Cardiomyopathies: Recent Insights and Latest Guidelines . Curr Cardiovasc Risk Rep. 2016 Feb;10.1007/s12170-016-0494-5.
43	Aagaard P, Aziz P, Baranowski B, Phelan D . Early repolarization in athletes – a review . Circ Arrhythm Electrophysiol. 2016 Mar;9(3):e003577. PMID: 26888446.
44	Symanski JD, McMurray RG, Silverman LM, Smith BW, Siegal AJ. Serum creatinekinase and CK-MB isoenzyme responses to acute and prolonged swimming in trained athletes . Clinica Chimica Acta. 1983; 129:181-7.
45	Symanski JD, Tso JV, Phelan D , Kim JH. Myocarditis in the athlete: a focus on COVID-19 sequelae . Clinics in Sports Medicine - Sports Cardiology (in press).