

SAUL GARETH MYERSON – PUBLICATIONS

ORIGINAL RESEARCH PAPERS:

1. Risk assessment for aortic dissection in turner syndrome: the role of the aortic growth rate.
Calanchini M, Bradley-Watson J, McMillan F, **Myerson S**, Fabbri S, Turner HE, Orchard E. *Clin Endocrin* 2024; published online January 2024 Mar; 100(3): 269-276 (<http://doi.org/10.1111/cen.15017>)
2. Role of cardiac energetics in Aortic Stenosis disease progression: Identifying the high-risk metabolic phenotype
Monga S, Valkovic L, **Myerson S**, Neubauer S, Mahmood M, Rider O. *Circulation Cardiovasc Imag* 2023 Oct;16(10): e014863. doi: 10.1161/CIRCIMAGING.122.014863
3. Predictors and clinical implications of residual mitral regurgitation following left ventricular assist device therapy.
Sharma H, Liu B, Yuan M, Shakeel I, Morley-Smith A, Hatch A, Bradley J, Chue C, **Myerson SG**, Steeds RP, Lim S *OpenHeart* 2023 Jun;10(1): e002240. doi: 10.1136/openhrt-2022-002240.
4. Novel insights into diminished cardiac reserve in non-obstructive hypertrophic cardiomyopathy from four-dimensional flow cardiac magnetic resonance component analysis
Ashkir Z, Johnson S, Lewandowski AJ, Hess A, Wicks E, Mahmood M, **Myerson S**, Ebberts T, Watkins H, Neubauer S, Carlhall CJ, Raman B; *Eur Heart J Cardiovasc Imag* 2023 Apr 28 (doi: 10.1093/ehjci/jead074)
5. Non-invasive cardiovascular magnetic resonance assessment of pressure recovery distance after aortic valve stenosis
Fernandes JF, Gill H, Nio A, Faraci A, Galli V, Marlevi D, Bissell M, Ha H, Rajani R, Mortier P, **Myerson SG**, Dyverfeldt P, Ebberts T, Nordsletten DA, Lamata P. *J Cardiovasc Magn Reson* 2023; 25(1): 5. (doi: 10.1186/s12968-023-00914-3).
6. Insights Into the Metabolic Aspects of Aortic Stenosis With the Use of Magnetic Resonance Imaging.
Monga S, Valkovič L, Tyler D, Lygate CA, Rider O, **Myerson SG**, Neubauer S, Mahmood M. *JACC Cardiovasc Imaging* 2022 Dec;15(12): 2112-26
7. Left ventricular T1-mapping in diastole versus systole in patients with mitral regurgitation.
Liu B, Sharma H, Khinb KS, Wesolowski R, Hothi SS, **Myerson SG**, Steeds RP *Scientific Reports* 2022; Nov 21; 12(1): 20000 (doi: 10.1038/s41598-022-23314-6)
8. Effectiveness of exhaled nitric oxide for the prediction of non-invasive left atrial pressure in older people: a cross-sectional cohort study
Jones S, Londahl M, Prothero A, Hobbs FDR, Pavord I, **Myerson S**, Prendergast BD, Coffey S. *Br J Gen Pract Open* 2022 2023 Mar 21;7(1):BJGPO.2022.0105.
9. Artificial Intelligence for Contrast-free MRI: Scar Assessment in Myocardial Infarction Using Deep Learning-based Virtual Native Enhancement (VNE)
Zhang Q, Burrage M, Shanmuganathan M, Gonzales R, Lukaschuk E, Thomas K, Mills R, Leal J, Nikolaidou C, Popescu I, Lee YPA, Zhang X, Dharmakumar R, **Myerson S**, Rider R, Channon K, Neubauer S, Piechnik S, Ferreira V. *Circulation* 2022; 146:1492–1503. (doi: 10.1161/CIRCULATIONAHA.122.060137)
10. Acute vasodilator response testing in the adult Fontan circulation using non-invasive 4D Flow MRI: a proof-of-principle study
McConnell B, Stoll VM, Panayiotou H, Piechnik SK, Neubauer S, van der Geest RJ, **Myerson SG**, Orchard E, Bissell MM. *Cardiol Young* 2022 Aug 9;1-8. (doi: 10.1017/S1047951122002426)
11. B-type Natriuretic Peptide at admission is a predictor of all-cause mortality at one year after the first acute episode of new-onset heart failure with a preserved ejection fraction
Ghilencea GL, Bejan G-C, Zamfirescu M-B, Stanescu AMA*, Matei L-L, Manea L-M, Kilic ID, Bălănescu S-M, Popescu A-C, **Myerson SG**. *J Personalised Med* 2022; 12(6): 890. doi: 10.3390/jpm12060890
12. Four-dimensional flow cardiac magnetic resonance assessment of left ventricular diastolic function
Ashkir Z, **Myerson S**, Neubauer S, Carlhall C-J, Ebberts T, Raman B *Front Cardiovasc Med* 2022 Jul 22; 9: 866131. (doi: 10.3389/fcvm.2022.866131).
13. United Kingdom Standards for Non-invasive Cardiac Imaging. Treibel TA, Kelion A, Ingram TE, Archbold A, **Myerson S**, Menezes L, Morgan-Hughes G, Schofield R, Keenan N, Clarke S, Keys A, Keogh B, Masani N, Ray S, Westwood M, Pearce K, Colebourn C, Bull R, Greenwood J, Roditi G, Lloyd G. *Heart* 2022; 0: 1–15. doi:10.1136/heartjnl-2022-320799.
14. Association of myocardial fibrosis and stroke volume by cardiovascular magnetic resonance and outcome in severe aortic stenosis after valve replacement: data from the BSCMR AS700 study.
Thornton GD, Musa TA, Rigolli M, Loudon M, Chin C, Pica S, Malley T, Foley JRJ, Vassiliou VS, Davies RH, Captur G, Dobson LE, Moon JC, Dweck MR, **Myerson SG**, Prasad SK, Greenwood JP, McCann GP, Singh A., Treibel TA. *JAMA Cardiol* 2022; 7(5): 513-520.
15. A Longitudinal Study of Mitral Regurgitation Detected after Acute Myocardial Infarction

- Sharma H, Yuan M, Shakeel I, Hodson J, Radhakrishnan A, Brown S, May J, O'Connor K, Zia N, Doshi SN, Hothi SS, Townend JN, **Myerson SG**, Ludman JF, Steeds RP, Nadir MAJ *Clin Med* 2022; 11(4): 965. (doi: 10.3390/jcm11040965).
16. The characteristics of mitral regurgitation: Data from patients admitted following acute myocardial infarction
Sharma H, Radhakrishnan A, Nightingale P, Brown S, May J, O'Connor K, Shakeel I, Zia N, Doshi SN, Townend JN, **Myerson SG**, Kirchhof P, Ludman PF, Adnan Nadir M, Steeds RP. *Data Brief* 2021; 39: 107451. (doi: 10.1016/j.dib.2021.107451)
 17. Mitral Regurgitation Following Acute Myocardial Infarction Treated by Percutaneous Coronary Intervention- Prevalence, Risk factors, and Predictors of Outcome.
Sharma H, Radhakrishnan A, Nightingale P, Brown S, May J, O'Connor K, Shakeel I, Zia N, Doshi SN, Townend JN, **Myerson SG**, Kirchhof P, Ludman PF, Adnan Nadir M, Steeds RP. *Am J Cardiol.* 2021; 157: 22-32
 18. Left Ventricular Diastolic Function Studied with Magnetic Resonance Imaging: A Systematic Review of Techniques and Relation to Established Measures of Diastolic Function.
Bojer AS, Soerensen MH, Gaede P, **Myerson S**, Madsen PL. *Diagnostics* 2021;11(7) :1282
 19. Markers of Myocardial Damage Predict Mortality in Patients with Aortic Stenosis.
Kwak S, Everett RJ, Treibel TA, Yang S, Ko T, Williams M, Lee H, Lee W, Chin C, Fukui M, Al Musa T, Rigolli M, Singh A, Tastet L, Dobson LE, Wiesemann S, Ferreira VM, Captur G, Schulz-Menger J, Schelbert EB, Clavel M-A, Newby DE, **Myerson SG**, Pibarot P, Lee S, Cavalcante JL, McCann GP, Greenwood JP, Moon JC, Dweck MR, Lee S-P. *J Am Coll Cardiol* 2021; 78(6): 545-558.
 20. Survival of people with valvular heart disease in a large, English community-based cohort study
Taylor CJ, Ordonez-Mena JM, Jones NR, Roalfe AK, **Myerson SG**, Prendergast B, Hobbs FDR. *Heart* 2021 Aug; 107(16): 1336-1343
 21. Regional Variation in Cardiovascular Magnetic Resonance Service Delivery across the United Kingdom
Keenan NG, Captur G, McCann G, Berry C, **Myerson S**, Fairbairn T, Hudsmith L, O'Regan DP, Westwood M, Greenwood JP. *Heart.* 2021 Mar 25; doi: 10.1136/heartjnl-2020-318667. Online ahead of print.
 22. Community prevalence, mechanisms and outcome of mitral or tricuspid regurgitation.
Cahill TJ, Prothero A, Wilson J, Kennedy A, Brubert J, Masters M, Newton JD, Dawkins S, Enriquez-Sarano M, Prendergast BD, **Myerson SG.** *Heart.* 2021; 107: 1003-9. doi: 10.1136/heartjnl-2020-318482
 23. A practical risk score for prediction of early cardiovascular readmission after a first episode of acute heart failure with preserved ejection fraction.
Zamfirescu DB, Ghilencea LN, Popescu MR, Bejan GC, Ghiordanescu IM, Popescu AC, **Myerson SG**, Dorobantu M. *Diagnostics* 2021; 11(2): 198
 24. Standard and Emerging CMR Methods for Mitral Regurgitation Quantification
Fidock B, Archer G, Barker N, Elhawaz A, Al-Mohammad A, Rothman A, Hose R, Hall IR, Grech E, Briffa N, Lewis N, van der Geest RJ, Zhang J-M, Zhong L, Swift AJ, Wild JM, De Gárate E, Bucciarelli-Ducci C, Bax JJ, Plein S, **Myerson S**, Garg P. *Int J Cardiol* 2021; 15: 316-321– doi <https://doi.org/10.1016/j.ijcard.2021.01.066>
 25. Mitral Valve Regurgitation Assessment by Cardiovascular Magnetic Resonance Imaging
Garg P, Swift AJ, Zhong L, Carlhäll C-J, Ebbers T, Westenberg J, Hope M, Bax JJ; **Myerson S.** *Nature Reviews Cardiology* 2020 May; 17(5): 298-312. doi: 10.1038/s41569-019-0305-z
 26. Obesity-related ventricular remodelling is exacerbated in dilated and hypertrophic cardiomyopathy.
Rayner JJ, Abdesselam I, d'Arcy J, **Myerson SG**, Neubauer S, Watkins H, Ferreira VM, Rider OJ. *Cardiovasc Diagn Ther.* 2020 Jun;10(3):559-567. doi: 10.21037/cdt-19-587.
 27. SCMR Position Paper (2020) on Clinical Indications for CMR
Leiner T, Bogaert J, Friedrich MG, Mohiaddin R, Muthurangu V, **Myerson S**, Powell AJ, Raman SV, Pennell DJ. *J Cardiovasc Magn Reson* 2020; 22: 76-112. doi: 10.1186/s12968-020-00682-4
 28. Magnetic resonance phase contrast velocity mapping for flow quantification in irregular heart rhythms using radial k-space ultrashort echo time imaging
Hell M, Francis J, d'Arcy J, Robson MD, Neubauer S, Achenbach S, **Myerson S.** *Intl J Cardiology* 2020; 317: 211-215
 29. Myocardial Extracellular Volume in Patients with Aortic Stenosis Undergoing Valve Intervention: A Multicenter T1-Mapping Study
Everett R, Treibel T, Fukui M, Lee H, Rigolli M, Singh A, Bijsterveld P, Tastet L, Al Musa T, Dobson L, Chin C, Captur G, Om SY, Wiesemann S, Ferreira V, Piechnik S, Schulz-Menger J, Schelbert E, Clavel M-A, Newby D, **Myerson S**, Pibarot P, Lee S, Cavalcante JL, Lee S-P, McCann G, Greenwood J, Moon J, Dweck M. *J Am Coll Cardiol.* 2020 Jan 28; 75(3):304-316
 30. Sex differences in left ventricular remodelling, myocardial fibrosis and mortality after aortic valve replacement.
Singh A, Musa TA, Treibel TA, Vassiliou VS, Captur G, Chin C, Dobson LE, Pica S, Loudon M, Malley T, Rigolli M, Foley JRJ, Bijsterveld P, Law GR, Dweck MR, **Myerson SG**, Prasad SK, Moon JC, Greenwood JP, McCann GP. *Heart.* 2019 Dec; 105: 1818-24

31. Meta-analysis of Transthoracic Echocardiography Versus Cardiac Magnetic Resonance for the Assessment of Aortic Regurgitation after Transcatheter Aortic Valve Replacement.
Jonnalagadda AK, Kampaktsis P, Oikonomou E, Papanastasiou C, Kokkinidis D, Garcia M, **Myerson S**, Karamitsos TD. *Am J Cardiol* 2019 Oct 15;124(8): 1246-1251
32. Histological evidence for impaired myocardial perfusion reserve in severe aortic stenosis. Mahmod M, Chan K, Raman B, Westaby J, Dass S, Petrou M, Sayeed R, Ashrafian H, **Myerson SG**, Karamitsos TD, Sheppard M, Neubauer S. *JACC Cardiovasc Imag* 2019; 12(11 Pt 1): 2276-2278
33. Left Ventricular Flow Analysis: Novel Imaging Biomarkers and Predictors of Exercise Capacity in Heart Failure. Stoll VM, Hess AT, Eriksson J, Rodgers CT, Bissell MM, Dyverfeldt P, Ebbers T, **Myerson SG**, Carlhäll C-J, Neubauer S. *Circulation Cardiovasc Imaging* 2019 May; 12(5): e008130. doi:10.1161/CIRCIMAGING.118.008130
34. A Hyperdynamic Right Ventricle is an Early Marker of Clinical Decompensation and Cardiac Recovery in Aortic Stenosis with Normal Left Ventricular Ejection Fraction. Rigolli M, Sivalokanathan S, Bull S, Wijesurendra RS, Ariga R, Loudon M, Francis JM, Karamitsos T, Neubauer S, Mahmod M, **Myerson SG**. *JACC Cardiovasc Imaging*. 2019; 12(1): 214-216
35. Myocardial Scar and Mortality in Severe Aortic Stenosis: Musa TA, Treibel TA, Vassiliou VS, Captur G, Singh A, Chin C, Dobson LE, Pica S, Loudon M, Malley T, Rigolli M, Foley JRJ, Bijsterveld P, Law GR, Dweck MR, **Myerson SG**, McCann GP, Prasad SK, Moon JC, Greenwood JP. *Circulation* 2018; 138(18): 1935-47
36. Cardiac auscultation poorly predicts valvular heart disease in asymptomatic patients
Gardezi SK, **Myerson SG**, Chambers J, Coffey S, d'Arcy J, Hobbs FDR, Holt J, Kennedy A, Loudon M, Prendergast A, Prothero A, Wilson J, Prendergast BD. *Heart* 2018; 104(22): 1832-5 (doi.org/10.1136/heartjnl-2018-313082)
37. Test-retest variability of left ventricular 4D flow cardiovascular magnetic resonance measurements in healthy subjects.
Stoll VM, Loudon M, Eriksson J, Bissell MM, Dyverfeldt P, Ebbers T, **Myerson SG**, Neubauer S, Carlhäll CJ, Hess AT. *J Cardiovasc Magn Reson*. 2018 Mar 2; 20(1): 15
38. Differential flow improvements after valve replacements in bicuspid aortic valve disease
Bissell MM, Loudon M, Hess AT, Stoll V, Orchard E, Neubauer S, **Myerson SG**. *J Cardiovasc Magn Reson* 2018 Feb 8; 20(1): 10
39. Measurement of myocardial native T1 in cardiovascular diseases and norm in 1291 subjects.
Liu JM, Liu A, Leal J, McMillan F, Francis J, Greiser A, Rider O, **Myerson S**, Neubauer S, Ferreira VM, Piechnik SK. *J Cardiovasc Magn Reson* 2017 19(1): 74
40. Abnormal Haemodynamic Flow Patterns in Bicuspid Pulmonary Valve Disease.
Bissell, MM, Loudon M, Neubauer S, **Myerson SG**. *Frontiers in Physiology* 2017 May 31; 8: 374. Published online: doi.org/10.3389/fphys.2017.00374
41. A Cardiac Contouring Atlas for Radiotherapy
Duane FK, Aznar MC, Bartlett F, Cutter DJ, Darby SC, Jaggi R, Lorenzen EL, McArdle O, McGale P, **Myerson S**, Rahimi K, Vivekanandan S, Warren S, Taylor CW. *Radiotherapy and Oncology* 2017 Mar; 122(3): 416-422
42. Inherited aortopathy assessment in relatives of patients with a bicuspid aortic valve
Bissell MM, Biasiolli L, Oswal A, Loudon M, Hess AT, Watkins H, Neubauer S, **Myerson SG** *J Am Coll Cardiol* 2017; 69 (7): 904-6
43. Left atrial appendage morphology in patients with non-valvular atrial fibrillation
Joy S, Sievert H, Bertog S, Betts T, Wilson N, **Myerson S**. *J Structural Heart Disease* 2017; 3: 8-14
44. Beyond Bernoulli: improving accuracy and precision of non-invasive peak pressure drops
Donati F, **Myerson S**, Bissell M, Smith NP, Neubauer S, Monaghan MJ, Nordsletten DA, Lamata P. *Circ Cardiovasc Imaging* 2017; 10: e005967
45. Large-Scale Unselected Community Echocardiographic Screening Reveals a Major Burden of Undiagnosed Valvular Heart Disease in Older People
d'Arcy JL, Coffey S, Loudon MA, Kennedy A, Pearson-Stuttard J, Birks J, Frangou E, Farmer AJ, Mant D, Wilson J, **Myerson SG**, Prendergast BP *Eur Heart J* 2016 Dec 14; 37: 3515-22; doi:10.1093/eurheartj/ehw229
46. Determination of clinical outcome in mitral regurgitation with cardiovascular magnetic resonance quantitation
Myerson SG, d'Arcy J, Christiansen JP, Dobson LE, Mohiaddin R, Francis JM, Prendergast B, Greenwood J, Karamitsos TD, Neubauer S *Circulation* 2016;133: 2287-96
47. Improvements in ECG Accuracy for the Diagnosis of Left Ventricular Hypertrophy in Obesity
Rider OJ, Bull SC, Nethononda R, Ntusi N, Ferreira V, Holloway CJ, Holdsworth D, Mahmod M, Rayner JJ, Banerjee R, **Myerson S**, Watkins H, Neubauer S. *Heart* 2016; 102: 1566-72. Epub Aug 2. doi:10.1136/heartjnl-2015-309201.
48. Dilated Cardiomyopathy: Phosphorus (31P) Magnetic Resonance Spectroscopy at 7 Tesla
Stoll VM, Clarke WT, Levelt E, Liu A, **Myerson SG**, Robson MD, Neubauer S, Rodgers CT *Radiology* 2016; Nov; 281: 409-417 (published online June 20th)

49. 4D Flow CMR Consensus Statement
Dyverfeldt P, Bissell M, Barker AJ, Bolger AF, Carlhäll C-J, Ebbers T, Francis CJ, Frydrychowicz A, Geiger J, Giese D, Hope MD, Kilner PJ, Kozerke S, **Myerson S**, Neubauer S, Wieben O, Markl M, *J Cardiovasc Magn Reson* 2015; 17: 72-90
50. A prospective, double-blind, randomised controlled trial of the angiotensin converting enzyme inhibitor Ramipril In Aortic Stenosis (RIAS trial)
Bull S, Loudon M, Francis JM, Joseph J, Gerry S, Karamitsos TD, Prendergast B, Banning AP, Neubauer S, **Myerson SG**. *EHJ-Cardiovascular Imaging* 2015; 16: 834-841; doi: 10.1093/ehjci/jev043
51. 4D Flow: Quantification of aorta SNR as a function of field strength and contrast enhancement for 1.5T, 3T and 7T
Hess AT, Bissell MM, Ntusi NAB, Lewis AJM, Tunnicliffe EM, Greiser A, Stalder AF², Francis JM¹, **Myerson SG**, Neubauer S, Robson MD *Magnetic Resonance in Med* 2015 May;73(5):1864-71.
52. Observational study of regional aortic size referenced to body size: production of a cardiovascular magnetic resonance nomogram
Davis AE, Lewandowski AJ, Holloway CJ, Ntusi NAB, Banerjee R, Nethononda R, Pitcher A, Francis JM, **Myerson S**, Leeson P, Donovan T, Neubauer S, Rider OJ. *J Cardiovasc Magn Reson* 2014; 16(1): 9-17
53. A prospective, double-blind, randomised controlled trial of the angiotensin converting enzyme inhibitor Ramipril In Asymptomatic Aortic Stenosis (RIAS trial): Trial Protocol
Bull S; Loudon M; Francis JM; Joseph J; Gerry S, Karamitsos TD; Prendergast BD; Banning AP; Neubauer S; **Myerson SG**. *J Clin Trials* 2014; 4:151-7. doi:10.4172/2167-0870.1000151
54. Myocardial Steatosis and Left Ventricular Contractile Dysfunction in Patients with Severe Aortic Stenosis
Mahmod M, Bull S, Suttie JJ, Pal N, Holloway C, Dass S, **Myerson SG**, Schneider JE, De Silva R, Petrou M, Sayeed R, Taggart D, Westaby S, Clelland C, Francis JM, Ashrafian H, Karamitsos TD, Neubauer S. *Circ Cardiovasc Imag* 2013; 6(5): 808-16
55. Aortic dilation in bicuspid aortic valve disease: flow pattern is a major contributor and differs with valve fusion type
Bissell MM, Hess AT, Biasioli L, Glaze SJ, Loudon M, Pitcher A, Davis A, Prendergast B, Markl M, Barker AJ, Neubauer S, **Myerson SG**. *Circulation Cardiovascular Imaging* 2013; 6(4): 499-507
56. The prevalence of left atrial appendage thrombus in patients undergoing catheter ablation for atrial fibrillation maintained on Warfarin
Herring, N; Page, S; Ahmed, M; Burg, M; Hunter, R; Earley, M; Sporton, S; Newton, J; Sabharwal, N; **Myerson, S**; Bashir, Y; Betts, T; Schilling, R; Rajappan, K. *J Atr Fibrillation* 2013; 5 (issue 6): 28-35
57. Global and regional left ventricular myocardial deformation measures with magnetic resonance feature tracking in healthy volunteers: comparison with tagging and relevance of gender
Augustine D, Lewandowski AJ, Lazdam M, Rai A, Francis J, **Myerson S**, Noble A, Neubauer S, Becher H, Petersen S and Leeson P, *J Cardiovasc Magn Resonance*. 2013; 15: 8
58. Human non-contrast T1 values and correlation with histology in diffuse fibrosis.
Bull S, White SK, Piechnik S, Flett AS, Ferreira V, Loudon M, Francis JM, Karamitsos TD, Prendergast B, Robson MD, Neubauer S, Moon JC, **Myerson SG**, *Heart* 2013; 99: 932-37 (published online 24/1/2013: doi:10.1136/heartjnl-2012-303052)
59. Non-contrast T1 mapping for the diagnosis of cardiac amyloidosis
Karamitsos T, Piechnik S, Banyersad S, Fontana M, Ntusi N, Ferreira V, Whelan C, **Myerson S**, Robson MD, Hawkins P, Neubauer S, Moon J. *J Am Coll Cardiology Cardiovasc Imaging* 2013; 6(4): 488-497
60. Prioritising echocardiography in Staphylococcus aureus bacteraemia.
Joseph JP, Meddows TR, Webster DP, Newton JD, **Myerson SG**, Prendergast B, Scarborough M, Herring N. *J Antimicrobial Chemotherapy* 2013; 68(2): 444-449 (epub 2012; doi:10.1093/jac/dks408)
61. Aortic regurgitation quantification with cardiovascular magnetic resonance: association with clinical outcome.
Myerson SG, D'Arcy J, Greenwood P, Mohiaddin R, Karamitsos TD, Francis JM, Banning AP, Christiansen, JP, Neubauer S. *Circulation* 2012; 126: 1452-60
62. LV mass volumes and ejection fraction estimation with magnetic resonance feature tracking: a comparison with traditional short axis LV CMR contouring.
Augustine DX, Lewandowski AJ, Rai A, Lazdam M, Francis J, Becher H, Petersen SE, **Myerson S**, Neubauer S, Leeson P. *European Heart J* 2012; 33: 1023-1023
63. Prevalence Of Cardiomyopathy In Asymptomatic Patients With Left Bundle Branch Block – A Cardiovascular Magnetic Resonance Study
Mahmod M, Karamitsos TD, Suttie JJ, **Myerson SG**, Neubauer S, Francis JM. *Int J Cardiovasc Imag* 2012; 28(5): 1133-40 [published online 31 July 2011, DOI: 10.1007/s10554-011-9931-1]
64. Cardiac iron overload in transfusion-dependent patients with myelodysplastic syndromes
Roy NBA, **Myerson S**, Patel R, Schuh AH, Wainscoat JS, McGowan S, Marchi E, Atoyebi W, Littlewood T, Chacko J, Vyas P and Killick SB. *Br. J Haematology* 2011; 154: 521-524

65. Growth of Left Ventricular Mass with Military Basic Training in Army Recruits
Batterham AM; Birch KM; Pennell DJ; George KP; **Myerson SG**. *Med Sci Sports Exerc* 2011; 43(7): 1295-1300
66. A comparison of visual and quantitative assessment of left ventricular ejection fraction by cardiac magnetic resonance
Holloway CJ, Edwards LM, Rider OJ, Fast A, Clarke K, Francis JM, **Myerson SG** and Neubauer S. *Int J Cardiovasc Imag* 2011; 27(4): 563-569
67. Feasibility and Safety of High-Dose Adenosine Perfusion Cardiovascular Magnetic Resonance Imaging
Karamitsos TD, Ntusi NBA, Francis JM, Holloway CJ, **Myerson SG**, Neubauer S. *J Cardiovasc Mag Reson* 2010; 12: 66-73
68. Direct and indirect quantification of mitral regurgitation with cardiovascular magnetic resonance, and the effect of heart rate variability.
Myerson SG, Francis JM, Neubauer S. *MAGMA* 2010; 23: 243-49
69. Real-time 3D fusion echocardiography
Szmigielski C, Rajpoot K, Grau V, **Myerson SG**, Holloway C, Noble JA, Kerber R, Becher H. *J Am Coll Cardiol Cardiovasc Imag* 2010; 3(7): 682-690
70. Phase contrast ultra-short TE; a more reliable technique for measurement of high velocity turbulent stenotic jets.
O'Brien K, **Myerson SG**, Robson M. *Magnetic Resonance in Medicine* 2009; 62: 626-36
71. Magnetic resonance imaging-derived indices for the normalization of left ventricular morphology by body size
George KP, Birch KM, Pennell DJ, **Myerson SG**. *Magnetic Resonance Imaging* 2009; 27: 207-13
72. Artefactual limitations of magnetic resonance imaging in the diagnosis of recoarctation of the aorta
Salam S, **Myerson S**, Wilson N. *Heart* 2008;94:753
73. Variation in the lipoprotein lipase gene influences exercise-induced left ventricular growth.
Flavell DM, Wootton PT, **Myerson SG**, World MJ, Pennell DJ, Humphries SE, Talmud PJ, Montgomery HE. *J Mol Med*. 2006 Feb;84(2):126-31.
74. BJCA Cardiology Trainees Survey
Myerson SG. *Br. J Cardiol* 2006; 13: 102
75. Differentiating athletes heart from pathological forms of cardiac hypertrophy by means of geometric indices derived from cardiovascular magnetic resonance
Petersen SE, Selvanayagam JB, Francis JM, **Myerson SG**, Wiesmann F, Robson MD, Ostman-Smith I, Casadei B, Watkins H, Neubauer S. *J Cardiovasc Magn Reson* 2005;7:551-558
76. Quantification of regurgitant fraction in mitral regurgitation by cardiovascular magnetic resonance: comparison of techniques.
Kon MW, **Myerson SG**, Moat NE, Pennell DJ. *J Heart Valve Dis*. 2004 Jul;13(4):600-7.
77. 3rd National Survey of Cardiology Trainees in the UK – Results & Comment
Myerson SG, Greenwood J. *Br J Cardiol* 2004; 11: 440-2
78. Novel imaging techniques for the differentiation of a left ventricular mass.
Timperley J, **Myerson SG**, Mitchell AR. *Heart* 2004; 90(2): 210
79. Mobile phones in hospitals
Myerson SG, Mitchell AJ. *BMJ* 2003; 326 (7387): 460-1
80. Bradykinin receptor gene variant and human physical performance
Williams AG, Dhamrait SS, Wootton PTE, Day SH, Hawe E, Payne JR, **Myerson SG**, World M, Budgett R, Humphries SE, Montgomery HE. *J Appl Physiol* 2003; 96(3): 938-42
81. Cortical bone resorption during exercise is interleukin-6 genotype-dependant.
Dhamrait SS, James L, Brull DJ, **Myerson S**, Hawe E, Pennell DJ, World M, Humphries SE.
Eur J Appl Physiol 2003; 89: 21-5
82. Left ventricular mass measurement : reliability of M-mode and 2-dimensional echocardiographic formulae
Myerson SG, Montgomery HE, World MJ, Pennell DJ. *Hypertension* 2002; 40: 673-678
83. Automatic MRI adipose tissue mapping using overlapping mosaics
Yang GZ, **Myerson S**, Chabat F, Pennell DJ, Firmin DN. *MAGMA* 2002; 14: 39-44
84. Peroxisome proliferator-activated receptor alpha gene regulates left ventricular growth in response to exercise and hypertension.
Jamshidi Y, Montgomery HE, Hense HW, **Myerson SG**, Torra IP, Staels B, World MJ, Doering A, Erdmann J, Hengstenberg C, Humphries SE, Schunkert H, Flavell DM. *Circulation*. 2002; 105: 950-5.
85. Caffeine-containing drinks – a cause of arrhythmias?

Myerson SG, Samarasinghe Y, Taylor C, Feher MD. *Br J Cardiology* 2002; 9: 122-4

86. Left ventricular hypertrophy with exercise and the angiotensin converting enzyme gene I/D polymorphism: a randomised controlled trial with losartan.
Myerson SG, Montgomery HE, Whittingham M, Jubb M, World MJ, Humphries SE, Pennell DJ.
Circulation 2001; 103: 226-30
87. The bradykinin BK2BR receptor polymorphism and the human left ventricular growth response
Brull D, Dhamrait S, **Myerson S**, Regitz-Zagrosek V, World M, Pennell D, Humphries S, Montgomery H.
Lancet 2001; 358: 1155-6
88. Angiotensin-converting enzyme genotype affects the response of human skeletal muscle to functional overload.
Folland J, Leach B, Little T, Hawker K, **Myerson S**, Montgomery H, Jones, D
Experimental Physiology 2000; 85: 575-9
89. The human angiotensin I-converting enzyme gene and endurance performance.
Myerson S, Hemingway H, Budgett R, Martin J, Humphries S, Montgomery H.
Journal of Applied Physiology 1999 Oct; 87(4): 1313-6
90. Human gene for physical performance.
Montgomery HE, **Myerson S**, Marshall R, Hemingway H, Clarkson P, Dollery C, Hayward M, Holliman DE, Jubb M World M, Thomas EL, Brynes AE, Saeed N, Barnard M, Bell J, Prasad K, Rayson M, Talmud PJ, Humphries SE
Nature 1998 May 21; 393(6682):221-2

REVIEWS, EDITORIALS & INVITED SUBMISSIONS

91. Left Ventricular Diastolic Function Studied with Magnetic Resonance Imaging: A Systematic Review of Techniques and Relation to Established Measures of Diastolic Function
Bojer AS, Soerensen MH, Gaede P, **Myerson S**, Madsen PL *Diagnostics* (Basel) 2021; 11(7): 1282. (doi: 10.3390/diagnostics11071282).
92. CMR in Evaluating Valvular Heart Disease: Diagnosis, Severity, and Outcomes.
Myerson SG. *JACC Cardiovasc Imaging*. 2020; 14: 2020-2032
93. Multimodality Imaging in Secondary Mitral Regurgitation
Sharma H, Liu B, Mahmoud-Elsayed H, **Myerson S**, Steeds RP. *Frontiers in Cardiovascular Medicine* 2020; <https://doi.org/10.3389/fcvm.2020.546279>
94. Imaging assessment of mitral and aortic regurgitation: current state of the art
Steeds RP and **Myerson SG**, *Heart* 2020; 106: 1769-1776
95. Tricuspid regurgitation – understanding the ‘problem child’
Myerson SG. *J Am Coll Cardiol* 2020; 76: 1302-4.
96. Optimizing the assessment of aortic regurgitation - the importance of quantity and quality. **Myerson SG**. *J Am Coll Cardiol Cardiovasc Imag* 2019; 12 (8 Pt 1): 1484-1486. DOI: 10.1016/j.jcmg.2018.09.016
97. Serum Biomarkers in valvular heart disease
Gardezi SKM, Coffey S, Prendergast BD, **Myerson SG**. *Heart* 2018; 104: 349–358. Published online - doi:10.1136/heartjnl-2016-310482
98. Appropriateness criteria for the use of cardiovascular imaging in native heart valve disease: a European Association of Cardiovascular Imaging report of literature review and current practice
Chambers J, Garbi M, Nieman K, **Myerson S**, Pierard LA, Habib G, Zamorano JL, Edvardsen T, Lancellotti P. *Eur J Cardiovasc Imag* 2017; 18: 489-98
99. Multimodality imaging in heart valve disease
Chambers JB, **Myerson S**, Rajani R, Morgan-Hughes G, Dweck M *OpenHeart* 2016; Mar 8;3(1), doi: 10.1136/openhrt-2015-000330
100. Preoperative assessment and perioperative management of cardiovascular risk
Schiefermueller J, **Myerson SG**, Handa A, *Angiology* 2013; 64(2): 146-50
101. Heart valve disease : investigation by cardiovascular magnetic resonance
Myerson SG, *J Cardiovasc Magn Reson Imaging*. 2012; 14: 7-30
102. The role of CMR in the evaluation of valve disease
Karamitsos TD, **Myerson SG**, *Progress in Cardiovasc Dis*. 2011; 54(3): 276-286
103. Cardiovascular Magnetic Resonance – An update and review
Myerson SG, Holloway CJ, Francis JM, Neubauer S
Progress in NMR Spectroscopy 2011; 59: 213-22.
104. Assessment of valvular heart disease by cardiovascular magnetic resonance imaging: a review
Christiansen JP, Karamitsos TD, **Myerson SG** *Heart Lung Circ* 2011; 20: 73-82

105. Stress Perfusion Imaging Using Cardiovascular Magnetic Resonance: A Review.
Christiansen JP, Karamitsos TD, **Myerson SG**, Francis JM, Neubauer S. *Heart Lung Circ* 2010; 19: 697-705
106. Who should perform cardiac imaging?
Myerson SG *Cardiology Management* 2011
107. Investigations in valvular Heart Disease
D'Arcy J, **Myerson SG** *Clinical Medicine* 2010; 10 (2): 172-6
108. The role of cardiovascular magnetic resonance imaging in heart failure
Karamitsos TD, Francis JM, **Myerson S**, Selvanayagam JB, Neubauer S. *J Am Coll Cardiol* 2009; 54: 1407-24
109. Valvular and haemodynamic assessment with cardiovascular magnetic resonance
Myerson SG. *Heart Fail Clinics* 2009; 5(3): 389-400
110. Can cardiac magnetic resonance imaging reclassify uremic cardiomyopathy in patients with end-stage renal failure?
Myerson SG. *Nature Clin Practice Cardiov Med* 2007 Jan;4(1):22-3
111. Evaluation and management of the cardiac amyloidosis
Selvanayagam JB, Hawkins PN, Paul B, **Myerson SG**, Neubauer S. *J Am Coll Cardiol* 2007; 50(22): 2101-10
112. How Do We Produce Quality Cardiologists?
Myerson SG. *Cardiology News* 2007 Nov/Dec
113. What is the role of balloon dilatation for severe aortic stenosis during pregnancy?
Myerson SG, Mitchell ARJ, Ormerod OJM, Banning AP. *J Heart Valve Dis* 2005; 14: 147-150
114. Exploring Cardiac Horizons
Greenwood J, **Myerson SG**. *Br J Cardiol* 2005; 12: 24-25
115. The assessment of left ventricular mass by cardiac magnetic resonance
Myerson SG, Bellenger NG, Pennell DJ. *Hypertension* 2002; 39: 750-755

CASE REPORTS

116. A rare case of refractory hypoxaemia in a patient with large ostial right coronary artery thrombus and large atrial septal defect.
Fares M, Nikolaidou V, Dawkins S, **Myerson SG** *EJHJ Cardiov Imag* 2023 Apr 24; 24(5):e9 (doi.org/10.1093/ehjci/jead022)
117. Rare congenital quadricuspid pulmonary valve stenosis evaluated by CMR.
Nikolaidou C, Shanmuganathan M, Khan M, **Myerson SG**. *Oxford Medical Case Reports* 2020;12, 441–442
118. Rare Unicuspid Pulmonary Valve and Pulmonary Artery Aneurysm in an Elderly Asymptomatic Patient
Burrage MK, Baker C, Nikolaidou V, **Myerson S**, Ferreira VM. *Eur Heart J Cardiovasc Imag* 2020; 21(6): 708; doi.org/10.1093/ehjci/jeaa008.
119. Large left ventricular staphylococcal vegetation mimicking a myocardial mass
Nikolaidou C, Baker C, Bradlow WM, Firoozan S, Myerson SG. *European Heart Journal - Cardiovascular Imaging*, Volume 20, Issue Supplement_2, June 2019, jez107.003, <https://doi.org/10.1093/ehjci/jez107.003>
120. An unusual cause of pericarditic chest pain.
Nikolaidou C, Wijesurendra RS, Baker C, **Myerson SG**. *European Heart Journal - Cardiovascular Imaging*, Volume 20, Issue Supplement_2, June 2019; jez108.020, <https://doi.org/10.1093/ehjci/jez108.020>
121. Unusual coarctation repair with double lumen distal arch.
Hell MM, Orchard E, Westaby S, Myerson SG. *Eur Heart J*. 2018 Feb 6. doi: 10.1093/eurheartj/ehy019. [Epub ahead of print]
122. Inflammatory Bowel Disease & Myocarditis: T1-Mapping the heart of the problem
Carande EJ, Piechnik SK, **Myerson SG**, Ferreira VM. *Eur Heart J Cardiovascular Imaging* 2017 May 1; 18(8): 940; published online 6-4 2017. Doi: <https://doi.org/10.1093/ehjci/jex054>
123. The Many Faces of Cardiac Lipoma - an Egg in the Heart!
Wijesurendra RS, Sheppard KA, Westaby S, Ormerod O, **Myerson SG**. *Eur Heart J Cardiovasc Imag* 2017 Jul 1; 18(7): 821. doi.org/10.1093/ehjci/jex048
124. Partial atrioventricular septal defect presenting in a septuagenarian
Zheng SL, **Myerson SG**, Orchard E. *E Heart J* 2016 Mar 14;37(11):917
125. Innominate artery pleomorphic sarcoma imaged with cardiovascular magnetic resonance and Positron Emission Tomography-Computed Tomography
Davis AE; Boardman H; Trent S; Petrou M; **Myerson SG**. *Eur Heart J* 2015 doi: 10.1093/eurheartj/ehv098
126. Congenital aortopulmonary window; an unusual cause of breathlessness. Rider OJ, Bissell M, **Myerson SG** *Heart* 2013; 99: 1546

127. PET-diagnosed lead infection in ARVC
Bradlow WM, Newton JD, Jin XY, Ratnatunga C, Rajappan K, **Myerson SG**. *Eur Heart J Cardiovasc Imaging*; 2012; 13(6) 538; [epub 8 Feb 2012, doi:10.1093/ehjci/jes016]
128. Myocardial infarction with intracardiac thrombosis as the presentation of acute promyelocytic leukaemia: diagnosis and follow-up by cardiac MRI
Cahill TJ, Chowdhury O, **Myerson SG**, Ormerod O, Herring N, Grinwade D, Littlewood T, Peniket A. *Circulation* 2011; 123: e370-72
129. Massive Melanotic Myocardial Metastasis Characterized by Multiple Cardiac Imaging Modalities
Karamitsos TD, Bull S, Francis JM, Newton J, Neubauer S, **Myerson S**. *Internat J Cardiol* 2011; 146: e27-9
130. Hypertrophic cardiomyopathy complicated by large apical aneurysm and thrombus, presenting as ventricular tachycardia
Holloway C, Betts TR, Neubauer S, **Myerson S** *J Am Coll Cardiol* 2010;56 1961
131. Congenitally Corrected Transposition of the Great Arteries Presenting in a Nonagenarian
Orchard EA, Ormerod O, **Myerson S**, Westaby S. *Circulation* 2010;122:e441-e444
132. Successful slow pathway modification using the femoral approach in a patient with interrupted Inferior Vena Cava with Azygos vein continuation
Wong KCK, **Myerson SG**, Bashir Y. *J Cardiovasc Electrophysiol* 2010; 21: 1300-1
133. Absent Right Superior Vena Cava: Multi-modality Imaging Of Upper Body Venous Drainage Via Left-sided Superior Vena Cava and Azygos Venous System
MacDonald ST, Emmanuel Y, **Myerson S**, Prendergast B, Neubauer S, Leeson P. *Circulation Cardiovasc Imag* 2009; 2: e34-36
134. Long-term cardiac remodeling after salvage partial left ventriculectomy in an infant with anomalous left coronary artery from the pulmonary artery.
Westaby S, Archer N, **Myerson SG**. *J Thoracic Cardiovasc Surg* 2009; 137: 757
135. The Prussian helmet sign: new imaging, old sign
Myerson SG, Tayal P. *J Am Coll Cardiol* 2008; 51: 32 (front cover)
136. Partial congenital absence of the pericardium
Scheuermann-Freestone M, Orchard E, Francis F; Petersen M, Friedrich M, Abbas R, Shore D, **Myerson S**, and Neubauer S. *Circulation* 2007; 116(6): e126-9
137. Atrial septal endocarditis
Mitchell RJ, Leeson P, Timperley J, **Myerson SG**, Becher H, Goldman J. *Eur J Echocardiography* 2007 Jan;8(1):48-9.
138. Atrial pathology in cardiac amyloidosis: evidence from ECG and cardiovascular magnetic resonance.
Leeson CP, **Myerson SG**, Walls GB, Neubauer S, Ormerod OJ. *Eur H J* 2006; 27: 1670
139. Tamponade caused by cardiac lipomatous hypertrophy
Myerson SG, Roberts R, Moat N, Pennell DJ *J Cardiovasc Mag Reson* 2004;6(2):565-8
140. Intercostal artery aneurysm post-coarctation repair diagnosed by magnetic resonance angiography.
Myerson SG, Pennell DJ. *J Cardiovasc Magn Reson* 2000; 2: 137-8.
141. 3,4-methylenedioxymethamphetamine (MDMA or 'ecstasy') causing severe hypoglycaemia.
Montgomery H, **Myerson S**. *American Journal of Emergency Medicine* 1997; 15(2): 218

BOOKS / CHAPTERS

- “Valve disease with CMR” chapter in the “European Society of Cardiology Textbook of Cardiovascular Medicine”
Oxford University Press, Oxford, 2017. Myerson SG
- “Valve disease” chapter in the “European Society of Cardiology Textbook of Cardiovascular Magnetic Resonance”
Oxford University Press, Oxford, 2017. Editors: Myerson SG, Cavalcante J, von Knobelsdorff F
- “Oxford Specialist Handbook: Valvular Heart Disease.” *Oxford University Press, Oxford, UK, 2011*
Editors: Newton J, Sabharwal N, Westaby S, **Myerson SG**, Prendergast B.
- “Oxford Specialist Handbook: Cardiovascular Magnetic Resonance.” *Oxford University Press, Oxford, UK, 2009*
Editors: **Myerson SG**, Francis JM, Neubauer S.
- “Oxford Handbook of Emergencies in Cardiology.” *Oxford University Press, Oxford, UK, 2006, 2nd edn: 2009*
Editors: **Myerson SG**, Mitchell ARJ, Choudhury RP. A popular handbook on acute cardiology, focussing on practical clinical management. 18,000 copies sold of the first edition. Now in second edition.
- Normal Cardiac Anatomy in “Atlas of CMR: Imaging Companion to Braunwald’s Heart Disease”, Elsevier 2009
Myerson SG, Neubauer S

The Effect of Age on The Cardiovascular Response to Stress in “Proceedings of the 11th Postgraduate Course in Critical Care Medicine” (Ed. A. Gullo), Springer Berlin-Heidelberg, Nov. 1996 [APICE11].
Myerson S, Singer M.