

SAUL GARETH MYERSON – PUBLICATIONS

ORIGINAL RESEARCH PAPERS:

1. Left ventricular T1-mapping in diastole versus systole in patients with mitral regurgitation.
Liu B, Sharma H, Khinb KS, Wesolowskic R, Hothi SS, **Myerson SG**, Steeds RP *Scientific Reports* 2022 (in press)
2. Measurement of exhaled nitric oxide fails to predict left atrial pressure assessed by E/e ratio in elderly patients
Jones S, Londahl M, Prothero A, Hobbs FDR, Pavord I, **Myerson S**, Prendergast BD, Coffey S. *Br J Gen Pract* 2022 (in press)
3. 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 (published online - <https://doi.org/10.1161/CIRCULATIONAHA.122.060137>; print version in press)
4. 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 (in press)
5. 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.
6. 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 (in press)
7. 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
8. 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
9. Markers of Myocardial Damage Predict Mortality in Patients with Aortic Stenosis.
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10. 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
11. 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.
12. Community prevalence, mechanisms and outcome of mitral or tricuspid regurgitation.
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13. 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
14. 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>
15. Mitral Valve Regurgitation Assessment by Cardiovascular Magnetic Resonance Imaging
Garg P, Swift AJ, Zhong L, Carlhäll C-J, Ebberts 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

16. 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.
17. 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
18. 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
19. 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
20. 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
21. Meta-analysis of Transthoracic Echocardiography Versus Cardiac Magnetic Resonance for the Assessment of Aortic Regurgitation after Transcatheter Aortic Valve Replacement.
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22. 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 Imaging* 2019; 12(11 Pt 1): 2276-2278
23. 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
24. 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
25. 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
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29. 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
30. 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
31. A Cardiac Contouring Atlas for Radiotherapy
Duane FK, Aznar MC, Bartlett F, Cutter DJ, Darby SC, Jagsi 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
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33. 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
34. 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
35. 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
36. Determination of clinical outcome in mitral regurgitation with cardiovascular magnetic resonance quantitation
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37. 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, Mahmood 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.
38. 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)
39. 4D Flow CMR Consensus Statement
Dyverfeldt P, Bissell M, Barker AJ, Bolger AF, Carlhäll C-J, Ebbers T, Francios 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
40. A prospective, double-blind, randomised controlled trial of the angiotensin converting enzyme inhibitor Ramipril In Aortic Stenosis (RIAS trial)
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41. 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.
42. 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
43. A prospective, double-blind, randomised controlled trial of the angiotensin converting enzyme inhibitor Ramipril In Asymptomatic Aortic Stenosis (RIAS trial): Trial Protocol
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44. Myocardial Steatosis and Left Ventricular Contractile Dysfunction in Patients with Severe Aortic Stenosis
Mahmood 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
45. Aortic dilation in bicuspid aortic valve disease: flow pattern is a major contributor and differs with valve fusion type
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47. 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
48. Human non-contrast T1 values and correlation with histology in diffuse fibrosis.
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49. Non-contrast T1 mapping for the diagnosis of cardiac amyloidosis

Karamitsos T, Piechnik S, Banypersad 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

50. Prioritising echocardiography in Staphylococcus aureus bacteraemia.
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53. 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]
54. Cardiac iron overload in transfusion-dependent patients with myelodysplastic syndromes
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55. Growth of Left Ventricular Mass with Military Basic Training in Army Recruits
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56. 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
57. Feasibility and Safety of High-Dose Adenosine Perfusion Cardiovascular Magnetic Resonance Imaging
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58. Direct and indirect quantification of mitral regurgitation with cardiovascular magnetic resonance, and the effect of heart rate variability.
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59. 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
60. Phase contrast ultra-short TE; a more reliable technique for measurement of high velocity turbulent stenotic jets.
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61. Magnetic resonance imaging-derived indices for the normalization of left ventricular morphology by body size
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65. Differentiating athletes heart from pathological forms of cardiac hypertrophy by means of geometric indices derived from cardiovascular magnetic resonance
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REVIEWS, EDITORIALS & INVITED SUBMISSIONS

81. CMR in Evaluating Valvular Heart Disease: Diagnosis, Severity, and Outcomes.
Myerson SG. *JACC Cardiovasc Imaging*. 2020; 14: 2020-2032
82. 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>
83. Imaging assessment of mitral and aortic regurgitation: current state of the art
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84. Tricuspid regurgitation – understanding the ‘problem child’
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85. 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
86. Serum Biomarkers in valvular heart disease
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87. 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

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89. Preoperative assessment and perioperative management of cardiovascular risk
Schiefermueller J, **Myerson SG**, Handa A, *Angiology* 2013; 64(2): 146-50
90. Heart valve disease : investigation by cardiovascular magnetic resonance
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91. The role of CMR in the evaluation of valve disease
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92. Cardiovascular Magnetic Resonance – An update and review
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93. Assessment of valvular heart disease by cardiovascular magnetic resonance imaging: a review
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94. Stress Perfusion Imaging Using Cardiovascular Magnetic Resonance: A Review.
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95. Who should perform cardiac imaging?
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Karamitsos TD, Francis JM, **Myerson S**, Selvanayagam JB, Neubauer S. *J Am Coll Cardiol* 2009; 54: 1407-24
98. Valvular and haemodynamic assessment with cardiovascular magnetic resonance
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