

## SAUL GARETH MYERSON – PUBLICATIONS

### ORIGINAL RESEARCH PAPERS:

1. 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, Ebberts T, **Myerson SG**, Carlhäll C-J, Neubauer S. *Circulation Cardiovasc Imaging* (in press)
2. 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, Mahmood M, **Myerson SG**. *JACC Cardiovasc Imaging*. 2019; 12(1): 214-216
3. 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
4. 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)
5. 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, Ebberts T, **Myerson SG**, Neubauer S, Carlhäll CJ, Hess AT. *J Cardiovasc Magn Reson*. 2018 Mar 2; 20(1): 15
6. 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
7. 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
8. 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
9. 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
10. 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
11. 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
12. 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
13. 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
14. 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.
15. 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 20<sup>th</sup>)
16. 4D Flow CMR Consensus Statement Dyverfeldt P, Bissell M, Barker AJ, Bolger AF, Carlhäll C-J, Ebberts 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
17. 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

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20. 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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21. Myocardial Steatosis and Left Ventricular Contractile Dysfunction in Patients with Severe Aortic Stenosis  
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22. Aortic dilation in bicuspid aortic valve disease: flow pattern is a major contributor and differs with valve fusion type  
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24. Global and regional left ventricular myocardial deformation measures with magnetic resonance feature tracking in healthy volunteers: comparison with tagging and relevance of gender  
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38. Magnetic resonance imaging-derived indices for the normalization of left ventricular morphology by body size  
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39. Artefactual limitations of magnetic resonance imaging in the diagnosis of recoarctation of the aorta  
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44. 3<sup>rd</sup> National Survey of Cardiology Trainees in the UK – Results & Comment  
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45. Novel imaging techniques for the differentiation of a left ventricular mass.  
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## REVIEWS & INVITED SUBMISSIONS

58. Optimizing the assessment of aortic regurgitation - the importance of quantity and quality. **Myerson SG**. *J Am Coll Cardiol Cardiovasc Imag* 2018 (in press)
59. Serum Biomarkers in valvular heart disease  
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69. Investigations in valvular Heart Disease  
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70. The role of cardiovascular magnetic resonance imaging in heart failure  
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Selvanayagam JB, Hawkins PN, Paul B, **Myerson SG**, Neubauer S. *J Am Coll Cardiol* 2007; 50(22): 2101-10
74. How Do We Produce Quality Cardiologists?  
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76. Exploring Cardiac Horizons  
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77. The assessment of left ventricular mass by cardiac magnetic resonance  
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## CASE REPORTS

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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>
80. The Many Faces of Cardiac Lipoma - an Egg in the Heart!  
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82. Innominate artery pleomorphic sarcoma imaged with cardiovascular magnetic resonance and Positron Emission Tomography-Computed Tomography  
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83. Congenital aortopulmonary window; an unusual cause of breathlessness. Rider OJ, Bissell M, **Myerson SG** *Heart* 2013; 99: 1546
84. PET-diagnosed lead infection in ARVC  
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Cahill TJ, Chowdhury O, **Myerson SG**, Ormerod O, Herring N, Grinwade D, Littlewood T, Peniket A. *Circulation* 2011; 123: e370-72
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Wong KCK, **Myerson SG**, Bashir Y. *J Cardiovasc Electrophysiol* 2010; 21: 1300-1
90. Absent Right Superior Vena Cava: Multi-modality Imaging Of Upper Body Venous Drainage Via Left-sided Superior Vena Cava and Azygos Venous System  
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**Myerson SG**, Pennell DJ. *J Cardiovasc Magn Reson* 2000; 2: 137-8.

98. 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, 2<sup>nd</sup> 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 11<sup>th</sup> Postgraduate Course in Critical Care Medicine" (Ed. A. Gullo), Springer Berlin-Heidelberg, Nov. 1996 [APICE11].  
**Myerson S**, Singer M.

## SUBMITTED:

Comprehensive Assessment of Mitral Valve Regurgitation by Cardiovascular Magnetic Resonance Imaging  
Pankaj Garg, M.D., Ph.D.; Andrew J Swift; Liang Zhong; Carl-Johan Carlhäll; Tino Ebbers; Jos Westenberg;  
Michael Hope; Jeroen J. Bax; Saul Myerson. *JCMR*

Transthoracic Echocardiography Versus Cardiac Magnetic Resonance for the Assessment of Aortic Regurgitation after Transcatheter Aortic Valve Replacement: A Systematic Review and Meta-Analysis.  
Jonnalagadda AK, Kampaktsis P, Oikonomou E, Papanastasiou C, Kokkinidis D, Garcia M, Myerson S, Karamitsos TD. *Int J Cardiol*

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*

An unusual cause of pericarditic chest pain. *Eur H J* : Case reports Nikolaidou C, Wijesurendra RS, Myerson SG

Sex differences in clinical outcome following intervention for severe aortic stenosis: Data from The British Society of Cardiovascular Magnetic Resonance Valve Consortium *Eur Heart J*

Atypical Right Atrial Blood Flow Increases Paradoxical Embolism Risk with a Patent Foramen Ovale. *Eur H J*

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 *JCMR*

Obesity-Related Ventricular Remodelling is Exacerbated in Dilated and Hypertrophic Cardiomyopathy  
Jennifer Rayner, Ines Abdesselam, Fiona McMillan, Jane Francis, Joanna d'Arcy, Saul Myerson, Stefan Neubauer, Hugh Watkins, Vanessa Ferreira, and Oliver Rider. *JCMR*

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*

Apical Staphylococcal Vegetation in the Setting of Reversible Left Ventricular Dysfunction  
Bradlow W, **Myerson SG**, *Circulation: Cardiovascular Imaging* (Sep 2012)