

DJORDJE G. JAKOVLJEVIC PhD MSc ACSM CEP BSc

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I am a Principal Investigator holding a tenure Associate Professor position in Cardiovascular Ageing and Heart Failure at Faculty of Medical Sciences of Newcastle University, United Kingdom. I lead a multidisciplinary team of physicians, molecular biologists, clinical physiologists and health psychologists, while being a Head of Non-invasive Cardiovascular Clinical Exercise Physiology Laboratory.

UNIVERSITY OF BELGRADE – VISITING PROFESSOR CRITERIA (Order 3):

1. Greater number of publications in leading international journals: Total number of 70 full-length articles have been published in leading international journals with one recent article published in the Journal of the American College of Cardiology - the best journal in the Cardiac and Cardiovascular system category with an impact factor of 19.9. For the full list of publications please see pages 8-12.

2. Greater number of scientific articles published in international conference proceedings: A total of 43 articles have been presented and published in international conferences scientific proceedings, including European Society of Cardiology, American Heart Association, etc. please see pages 12-15.

3. Achieved results in development of adequate educational – scientific field: I have successfully led research programmes to advance fields of physiology, exercise science, heart failure, and cardiology, with overall research grant income in excess of £1.7 m from different research funding bodies including UK Medical Research Council, National Institute for Health Research and EU Horizon2020 programme (as detailed on page 3). The research conducted by my group has direct impact on improvement in clinical practice and patient outcomes. Selected examples include: Recovery in advanced heart failure using mechanical circulatory support (<https://www.ncbi.nlm.nih.gov/pubmed/28408022>), Development of a novel test to improve diagnosis of heart failure (<https://www.ncbi.nlm.nih.gov/pubmed/29943902>), Cardiovascular protective role of exercise in diabetes mellitus (<https://www.ncbi.nlm.nih.gov/pubmed/30387015>), and Improved understanding of cardiovascular changes with ageing and physical activity (<https://www.ncbi.nlm.nih.gov/pubmed/25550398>).

I have successfully mentored seven PhD, two MD, and 12 MRes candidates, as detailed on pages 5-6.

4. Citations of published articles: Publications have been cited 1856 times so far, with GoogleScholar H-index 25, i10-index 41, ResearchGate score 38. The work on cardiac recovery in advanced heart failure, published in 2017 received a worldwide attention with global news headlines published in more than 100 media sources in the UK and abroad including BBC, Independent, Times, Daily Mirror etc.

5. International Scientific Reputation:

- I lead the research programme in the major international SILICOFCM project value of €5,559,201, funded by the EU Horizon2020. The multi- and inter-disciplinary project involves 15 academic and industry partners based in the EU and USA. The SILICOFCM project (www.silicofcm.eu) is developing a computational platform for *in silico* clinical trials for familial cardiomyopathies capable of optimizing and testing medical treatment strategies to improve patients outcomes. I lead and coordinate a multicentre clinical study (involving Paris, Regensburg, Florence and Novi Sad) to identify clinical and genetic markers of disease progression and response to pharmacological and lifestyle treatments in hypertrophic cardiomyopathies (<https://clinicaltrials.gov/ct2/show/NCT03832660>).

- **Invited speaker** at 28 international conferences, please see pages 6-8. Invited **Lead Guest Editor** of a Special Issue for Journal of Interventional Cardiology. **Editorial Board Member** of the Heart Health: Open Access Journal. **Invited Chairman** at international conferences including European Society of Cardiology Heart Failure and EuroPrevent Conferences in 2012 (Belgrade) and 2016 (Istanbul), International Conference on Clinical Cardiology and Heart Failure (CardioS Belgrade) 2017 and 2018, International Annual Meeting on Mechanical Circulatory Support (Newcastle) 2017 and 2018. Scientific Board Member of the CardioS (Belgrade, 2016-2019). **Organiser of the International Symposium** “Understanding the Ageing Heart” funded by the British Heart Foundation (Newcastle).

- Research Grant and Fellowship **Reviewer** for the following international funding bodies: Medical Research Council, National Institute for Health Research, Biotechnology and Biological Sciences Research Council, British Heart Foundation, Heart Research UK, Austrian Science Fund, Serbian Ministry of Education and Science.

EMPLOYMENT

Associate Professor/Senior Lecturer (Cardiovascular Ageing and Heart Failure). Clinical and Translational Research Institute, Faculty of Medical Sciences, Newcastle University, UK
2017, June – tenure position

Head and Scientific Lead, Non-Invasive Cardiovascular Clinical Exercise Research Laboratory. National Institute for Health Research, Clinical Research Facility, Royal Victoria Infirmary, Newcastle upon Tyne, UK
2017, June – present

Senior Research Fellow (Cardiovascular Ageing, Heart Failure and Exercise). Institute of Cellular Medicine, MRC Centre for Ageing and Vitality, Faculty of Medical Sciences, Newcastle University, UK
2014, April – 2017, May

Senior Research Associate (Clinical Cardiovascular Exercise Physiology). Institute for Ageing and Health, Faculty of Medical Sciences, Newcastle University, UK
2011, Aug – 2014, Feb

Honorary Clinical Researcher, Newcastle upon Tyne Hospitals NHS Foundation Trust (Freeman Hospital and Royal Victoria Infirmary), UK
2009, Sep - present

Research Associate, Institute for Ageing and Health, Faculty of Medical Science, Newcastle University
2009, Sept – 2011, July

Clinical Researcher, Harefield Hospital, Royal Brompton and Harefield NHS Trust; and Hillingdon Hospital, Uxbridge, UK
2006, Sep – 2008, Oct

Teaching Assistant, University of Belgrade (Serbia)
2003, Jan – 2009, Jan

EDUCATION

PhD. Buckinghamshire University/Harefield Hospital – Department of Cardiac Transplantation (UK)
2006, March – 2009, Jan Cardiovascular Physiology and Heart Failure: “The effect of surgical and exercise interventions on cardiac function in patients with heart failure”
(Mentors: Professor David A Brodie & Prof Sir Magdi Yacoub)

M.Sc. Brunel University, Centre for Sports Medicine and Human Performance (UK)
2003, Sept – 2005, Sept Applied Physiology: “The effect of reduced breathing frequencies upon the inspiratory muscle fatigue” (Mentor: Professor Alison McConnell)

B.Sc. University of Belgrade, Faculty of Sport and Physical Education (Serbia)
1998, Oct – 2003, April

2010 American College of Sport Medicine Certified Clinical Exercise Physiologist

ESTEEM INDICATORS: H-index 24. RG score 38

Grant and Fellowship reviewer for the following UK funding bodies:

Medical Research Council, National Institute for Health Research, Biotechnology and Biological Sciences Research Council, British Heart Foundation, Heart Research UK, Austrian Science Fund

Djordje G Jakovljevic: CV / October 2019

Understanding the Ageing Heart Symposium funded by the British Heart Foundation - applicant and organizer

Invited *ad hoc* reviewer for the following journals:

International Journal of Cardiology, BMJ Heart, European Journal of Heart Failure, American Journal of Cardiology, Future Cardiology, European Journal of Applied Physiology, Journal of Cardiac Failure, Journal of Clinical Monitoring and Computing, Circulation Heart Failure, PLoS One, BMJ open.

Invited speaker - please see below the list of invited presentations.

COURSES AND TRAINING COMPLETED

Cardiac Magnetic Resonance Master Class (Leeds Teaching Hospital, Leeds)

Introduction to teaching in higher education (Newcastle University, Newcastle)

Good clinical practice (Freeman Hospital, Newcastle)

Principal Investigator Development Programme (Newcastle University, Newcastle)

Clinical trials workshop: Good clinical practice (Hillingdon Hospital, London)

Preparing for teaching in higher education (Buckinghamshire University, Buckinghamshire)

Adult basic, intermediate and advanced life support (Harefield Hospital, Harefield, London)

Cardiopulmonary exercise stress testing (Harefield and Hillingdon Hospitals, London)

RESEARCH FUNDING

Awarded grants

2018 EU Horizon2020 (04/2018-03/2021). SILICOFM project will develop a computational platform for *in silico* clinical trials of familial cardiomyopathies capable of optimizing and testing medical treatment strategy to improve patient outcomes. The Newcastle team will lead studies to identify clinical and genetic markers of disease progression and response to pharmacological and lifestyle treatments in people living with hypertrophic cardiomyopathies. Total project value €5,559,201 (to Newcastle €605,090). Chief Investigator (split 60%).

2016 Medical Research Council Confidence in Concept (01/07-30/06/17). Sensitivity and specificity of non-invasive haemodynamic assessment to diagnose heart failure in primary care. Principal investigator (split 70%) £102,254.

2016 Novartis Pharmaceuticals (04/16-06/17). A multicentre, randomized, double-blind, cross-over placebo-controlled Phase II study to assess the effect of serelaxin versus placebo on high sensitivity cardiac troponin release in patients with chronic heart failure after exercise stress testing in addition to standard of care. Chief Investigator for Newcastle Site (split 80%) £154,965.

2015 NIHR Newcastle Biomedical Research Centre (09/12/15-31/12/15). Personalised home-based physical activity intervention in older adults with Heart Failure: advancing towards an effective clinical therapy. Chief Investigator (split 65%) £72,684

2014 MRC Lifelong Health and Wellbeing Centre for Ageing and Activity (31/08/14-31/03/19). Co-applicant/Co-investigator (split 15%) £5,549,620.

2012 Medical Research Council, Arthritis Research UK. Effects of dietary nitrate supplementation on oxygen cost during exercise and muscular strength in older subjects. Co-applicant (split 20%) £39,700

2011 British Heart Foundation, Ageing Heart Symposium £12,000

2010 Travel Grant Diabetes and Cardiovascular Diseases EASD Study Group 1,000 euros

SCHOLARSHIPS AND ACHIEVEMENTS

2010 Best Applied Research Competition First Award, Coventry University

2009 Best Applied Research Competition First Award, Buckinghamshire University

2008 Innovision, Denmark, Travel Grant

2008 Winner of the Mandy Norton Prize for the best oral presentation, Buckinghamshire University

2007 Buckinghamshire University equipment grant for non-invasive haemodynamic assessment.

2006 Full-time Ph.D. bursary Brunel/Buckinghamshire University

2005/2006 Serbian Government Fund Scholarship for young talents and researchers

2004 Belgrade University – The best student of Faculty of Sport and Physical Education Prize

2003 Brunel University International Scholarship

2003 – present The Scholar of the Serbian Royal Family

PROFESSIONAL MEMBERSHIPS

2008 – present European Society of Cardiology

2008 – present European Heart Failure Association

2008 – present European Association for Cardiovascular Prevention and Rehabilitation

2014 – present Member of the European Working Group on Myocardial Function

2014 – present Member of the ESC Working Group on Hypertension and the Heart

COLLABORATIONS

Newcastle University, Wellcome Trust Centre for Mitochondrial Research (Prof Doug Turnbull, Director)

Newcastle University, Inflammation and Fibrosis Group (Prof Derek Mann, Head)

Freeman Hospital, Cardiology Department, Newcastle (Prof Guy MacGowan, Prof Stephan Schueler)

Qatar Cardiovascular Research, Doha, and Imperial College London (Prof Sir Magdi Yacoub, Director)

Institute for Cardiovascular Diseases Vojvodina (Prof Aleksandar Redzek, Director and Prof Lazar Velicki)

University of Belgrade, Medical School and KCS (Professors Petar Seferovic and Arsen Ristic)

Oxford University, Department of Primary Health Care (Prof Richard Hobbs and Dr David Nunan)

Cambridge University, Department of Primary Care Research (Professors Jonathan Mant and Christi Deaton)

TEACHING ACTIVITIES

- Newcastle University, Faculty of Medical Sciences:

1. BSc Exercise Biomedicine (2016 -)

2. MRes Cardiovascular Science in Health and Disease (2013 -).

3. MRes Clinical Exercise Physiology (2016 -)

4. MSc Clinical Science: Diagnostic and Treatment in Cardiovascular Disorders (2012 -)

RESEARCH STUDENT SUPERVISION / MENTORSHIP

Doctor of Philosophy (PhD)

Alaa Alyahya, PhD candidate (ongoing 09/2019-08/2022). Heart Rate Variability in Hypertrophic Cardiomyopathy – from technology advancements to clinical interventions. (Lead supervisor, Co-supervisor Prof MacGowan).

Amy Fuller, PhD candidate (ongoing 10/2018-09/2021). Clinical and genetic determinants of disease progression and response to lifestyle intervention in patients with hypertrophic cardiomyopathy. (Lead supervisor, Co-supervisor Dr MacGowan).

Dr Shantanu Sengupta, PhD candidate (ongoing 02/2018-expected completion 01/2021). Pathophysiology of heart failure: haemodynamic response to pharmacological and physiological interventions in heart failure with preserved vs. reduced left ventricular ejection fraction. (Lead supervisor, Co-supervisor Dr MacGowan)

Ghazaleh Alimohammadiha, PhD Candidate (ongoing 10/2015 – submitted 2nd September 2019). Defining the molecular and physiological links between the ageing and cardiac disease and their malleability with exercise training (Joint-lead supervisor with Dr Greaves).

Nduka Charles Okwose, PhD candidate (completed 10/2014 - 04/2018). Cardiovascular function and physical activity in patients with chronic heart failure (Lead supervisor, Co-supervisor Dr Avery).

Sophie Cassidy, PhD (completed 10/2012 – 12/2015). The effect of exercise on metabolic control, liver lipid and cardiac function in patients with type 2 diabetes (Joint-lead supervisor with Prof Trenell).

Katherine Jones, PhD (completed 10/2010 – 06/2014). The effect of interval training on clinical and physiological outcomes in patients with inclusion body myositis and mitochondrial disorders (Joint-lead supervisor with Prof Doug Turnbull).

Doctor of Medicine (MD)

Dr Shaemala Anpalakhan, MD candidate (ongoing 10/2019-09/2021). Clinical determinants of prognosis in heart failure with preserved ejection fraction.

Dr Sasiharan Sithamparanathan, MD candidate (10/2015-12/2017). Improving clinical and physiological outcomes using non-invasive haemodynamic assessment in patients with pulmonary hypertension. (50% co-supervision with Profs Corris and Gorman).

Master by Research (MRes)

Serlie Fatrin (MBBS, MRes dissertation 2019). Relationship between functional capacity, haemodynamic response to exercise and quality of life in chronic heart failure. (Distinction)

Bashar Adi Wahyu Pandhita (MBBS, MRes). Bioreactance is a valid method for estimating cardiac output in chronic heart failure. (Distinction)

Bethany Kate Dyer (BSc, MRes dissertation 2019). Peak cardiac power output is a strong marker of disease severity in chronic heart failure. (Merit)

Vincent Leroy (MBBS, MRes dissertation 2018). Relationship between cardiac torsion, diastolic function and cardiac response to exercise. (Distinction)

Milos Parovic (MBBS, MRes dissertation 2018). N-terminal prohormone brain natriuretic peptide, cardiac function and haemodynamic response to exercise in chronic heart failure. (Distinction)

Prisca Wibowo (MBBS, MRes dissertation 2018). The effect of age on the relationship between body metabolism and cardiac high energy phosphate metabolism in relation to age. (Distinction)

Calum Reaich (MBBS, MRes dissertation 2018). Association between cardiac and arterial function in chronic heart failure. (Merit)

Vivek Vaidya (MBBS, MRes dissertation 2017). The effect of high intensity interval training on cardiac autonomic regulation in patients with type 2 diabetes. (Distinction)

Jadine Scragg (MSci, dissertation 2017). Relationship between physical activity in cardiac function in heart failure.

Maria Nathania (MBBS, MRes dissertation 2016). The role of cardiac high energy metabolism on cardiac pumping capability and performance. (Distinction)

Jose Syrianegara (MBBS, MRes dissertation 2016). The effect of high intensity interval training on cardiac performance in people with type 2 diabetes. (Distinction)

Hugo Njemanze (MBBS, MRes dissertation 2015). Cardiac autonomic changes with ageing – the impact of physical activity. (Merit)

Bachelor of Science (BSc)

Kieran Dickinson (BSc dissertation 2019). Physical activity, sedentary behaviour and sleep in patients with stable chronic heart failure and coronary artery disease.

Regimantas Vilkelis (BSc dissertation 2019). The effect of a novel home-based intervention on physical activity, sedentary behaviour and sleep in patients with stable chronic heart failure

Uche Monyei (BSc dissertation 2018). Ageing and body composition.

Ellie Brown (BSc dissertation 2017). The effect of physical activity on cardiac and metabolic function.

Charlotte Jones (BSc dissertation 2017). The effect of age on cardiac and metabolic function.

Esther Apkan (BSc, dissertation 2016). The effect of age on mechanisms of exercise intolerance.

Ruth Perkins (BSc dissertation 2016). Relationship between stroke volume estimates by magnetic resonance imaging and bioreactance.

Jody McCoy (BSc dissertation 2016). Pathophysiology of exercise intolerance in chronic diseases.

MD / PhD Thesis Examiner

Dr Thomas Green, MD (Newcastle University, 2019). Left ventricular function in heart failure with preserved ejection fraction.

Mr Maziar Navidi MD (Newcastle University, 2019). Impact of neo-adjuvant chemotherapy on cardiorespiratory reserve, sarcopenia and quality of life in oesophago-gastric carcinoma.

David Burns PhD (Newcastle University, 2014). Ageing in the zebrafish heart.

PUBLIC ENGAGEMENT ACTIVITIES

Newcastle Centre for Ageing and Vitality. MRC Festival of Science. Newcastle Falcons, 23 June 2016.

Research Council Centenary Event, Centre for Life, Newcastle; Raising public awareness of Research into Physical Activity and Health with demonstration of the MoveLab activities to children and adults of the North East of England, 22-23 June 2013

Hairy Bikers (BBC series) “Love food and lose the weight” – Engagement with the filming of cardiorespiratory fitness assessment of Mr David Myers and Mr Simon King, 28 February 2012

Institute for Cellular Medicine, Newcastle University – Cardiopulmonary exercise test demonstration to secondary school students of the North East of England, 06/2011, 07/2012, 06/2013

INVITED PRESENTATIONS:

1. **Jakovljevic DG.** Are we there on the road to full cardiac recovery with mechanical unloading? *Cardiology Society of India 71st Annual conference at New Delhi, India, 5-8 December 2019.*
2. **Jakovljevic DG.** Mechanisms, evaluation, and clinical implications of effort intolerance in pulmonary arterial hypertension. *Regional Symposium: Novelty in diagnosis and treatment of pulmonary hypertension, Novi Sad, Serbia. 24-26 October 2019.*
3. **Jakovljevic DG.** Non-invasive central haemodynamic assessment during stress testing in heart failure. *15th Annual Conference of the European Society of Cardiology Working Group on Myocardial and Pericardial Diseases, Belgrade, Serbia, 5-7 October 2018.*
4. **Jakovljevic DG.** Improvements in exercise tolerance in patients on a long-term ventricular assist device therapy. *The 8th Annual Meeting on Mechanical Circulatory Support Freeman Hospital, Newcastle upon Tyne, 8 December 2017.*

5. **Jakovljevic DG.** Left Ventricular Assist Device therapy as a Bridge to Recovery in Advanced Heart Failure. *Institute for Cardiovascular Diseases Vojvodina, 15-16 November 2017.*
6. **Jakovljevic DG.** Resistant hypertension: drugs or renal denervation? *15th International Congress on Clinical Cardiology and Heart Failure (CardioS), Belgrade, Serbia, 7-9 April 2017.*
7. **Jakovljevic DG.** Physical activity and cardiovascular ageing. *International Sports Medicine Conference, Newcastle University, UK, 31 August – 2 September 2016.*
8. **Jakovljevic DG.** Effects of ageing on cardiorespiratory fitness: impact on outcomes from anaesthesia and surgery. *Royal College of Anaesthetists Summer Symposium, Brighton, UK, 7-8 June 2016.*
9. **Jakovljevic DG.** Cardiovascular ageing and physical activity. *FUSE Annual Meeting - The UKCRC Centre for Translational Research in Public Health, Newcastle, UK, 19 May 2016.*
10. **Jakovljevic DG.** How to use electrical signal processing and gas rebreathing technologies to assess central haemodynamics during stress testing? *European Society of Cardiology Association for Cardiovascular Prevention and Rehabilitation, EuroPrevent Annual Congress. European Heart House in Sophia Antipolis, France 14-15 June 2016.*
11. **Jakovljevic DG.** Serelaxin in Heart Failure – the effect of serelaxin on high-sensitivity cardiac troponin release in response to exercise stress test in patients with chronic heart failure. *Freeman Hospital, Newcastle upon Tyne, 25 January 2016.*
12. **Jakovljevic DG.** Cardiovascular Ageing: Interaction between physical activity and cardiac function. *The UK Northern Sports Medicine Conference. Newcastle University, 10 October 2015*
13. **Jakovljevic DG.** Applied physiology in the context of changing clinical practice and patients outcomes. *University of Kragujevac, 10-12 June 2015.*
14. **Jakovljevic DG.** Cardiovascular ageing: arterial stiffness predicts cardiac pumping capability in older people. *23rd Northern Cardiovascular Research Group Meeting, Copthorne Hotel, Newcastle, 21 April 2015.*
15. **Jakovljevic DG.** Clinical consequences of haemodynamic measurements under exercise. *Qatar Cardiovascular Research Centre and Heart Hospital, Doha, Qatar, 11-14 May 2014.*
16. **Jakovljevic DG.** Heart failure in diabetes: molecular and metabolic mechanisms. *12th International Congress on Clinical Cardiology and Heart Failure, Belgrade, Serbia, 24-27 April 2014.*
17. **Jakovljevic DG.** The effect of physical activity on cardiac ageing phenotype in women. *Medical Research Council Lifelong Health and Wellbeing Annual Meeting. University College London, 6-8 November 2013.*
18. **Jakovljevic DG.** The impact of age and physical activity on cardiac function and performance. *A cross-council research programme: New Dynamics of Ageing Annual Meeting. Birmingham, 22 May 2013.*
19. **Jakovljevic DG.** The role of advanced glycation end products in cardiovascular disease. Meet the expert of translational research: Molecular Basis of Heart Failure. *11th International Congress on Clinical Cardiology and Heart Failure, Belgrade, Serbia, 26-17 April 2013.*
20. **Jakovljevic DG.** Physical activity and age-related changes in aerobic and cardiac function. *MRC Centre for Integrated Research into Musculoskeletal Ageing. Liverpool, 27 February 2013.*
21. **Jakovljevic DG.** Current tendencies in cardiopulmonary exercise testing: non-invasive assessment of cardiac power output. *Magdi Yacoub Heart Foundation, Aswan Heart Centre, Egypt, 13-14 Oct 2012.*
22. **Jakovljevic DG.** Neurohumoral system activation blockade: basis for prevention and treatment of heart failure. *European Society of Cardiology Heart Failure Congress, Belgrade, Serbia, 19-22 May 2012.*
23. **Jakovljevic DG.** Congress Highlights - Basic Sciences. *European Society of Cardiology Heart Failure Congress, Belgrade, Serbia, 19-22 May 2012.*

24. **Jakovljevic DG.** Left ventricular assist devices improve cardiac and physical function in patients with severe heart failure. *Medical School, University of Novi Sad, Novi Sad, Serbia. 29 May 2011*
25. **Jakovljevic DG.** The effect of mechanical circulatory support on cardiac and exercise performance in patients with chronic heart failure. Coventry University – Applied Research Competition between *Buckinghamshire New University, Coventry University, Gloucester University and Worcester University, Coventry, 30 June 2010 (First Prize Winner - Best Applied Research Competition Award).*
26. **Jakovljevic DG.** Exercise intolerance and cardiac power output in chronic heart failure. *Freeman Hospital, Newcastle upon Tyne, 16 March 2010.*
27. **Jakovljevic DG.** Cardiopulmonary exercise testing in heart failure. Staff Symposium, Faculty of Society and Health, Buckinghamshire New University, *Chalfont Campus, 09 January 2009.*
28. **Jakovljevic DG.** Cardiac function in patients with severe heart failure, those with implanted and explanted left ventricular assist devices. *Thematic Meeting on Clinical Consequences of Hemodynamic Measurements under Exercise Testing, Copenhagen, Denmark, 24 – 25 September 2007.*

PUBLICATIONS (total of 72 peer reviewed, full length articles in leading international journals with impact factor indication)

2019

1. Gao X, **Jakovljevic DG**, Beard DA. (2019) Cardiac metabolic limitations contribute to diminished performance of the heart in aging. *Biophysical Journal* 2019, [Epub ahead of print 05/06/19]. IF: 3.7
2. Okwose NC, Zhang J, Chowdhury S, Houghton D, Ninkovic S, Jakovljevic S, Jevtic B, Ropret R, Eggett C, Bates MGD, MacGowan GA, **Jakovljevic DG.** (2019) Reproducibility of inert gas rebreathing method to estimate cardiac output at rest and during cardiopulmonary exercise stress testing. *International Journal of Sports Medicine*, 40:125-132. IF: 2.1
3. Cassidy S, Vaidya V, Houghton D, Zalewski P, Seferovic JP, Hallsworth K, MacGowan GA, Trenell MI, **Jakovljevic DG.** (2019) Unsupervised high-intensity interval training improves glycaemic control but not cardiovascular autonomic function in type 2 diabetes patients: A randomised controlled trial. *Diabetes and Vascular Disease Research*, 16:69-76. IF: 2.4
4. Parovic M, Okwose NC, Bailey K, Velicki L, Seferovic PM, MacGowan GA, **Jakovljevic DG.** (2019) NT-proBNP is a weak indicator of cardiac function and haemodynamic response to exercise in chronic heart failure. *ESC Heart Failure*, 6(2):449-454. IF: 3.4
5. Jones C, Markovic M, Charman S, Okwose N, Ropret R, Mandaric S, MacGowan GA, **Jakovljevic DG.** (2019). Cardiac function is not associated with glucose control in older women. *Experimental Gerontology*, 116: 31-36. IF: 3.1
6. MacGowan GA, **Jakovljevic DG.** (2019) Exercise hemodynamics to evaluate the breathless patient: Defining the normal pulmonary arterial wedge pressure. *Journal of Cardiac Failure*, 25:123-124. IF: 3.9
7. Koshy A, Cruz NB, Okwose NC, Fernandez OG, Green T, Woods A, Robinson-Smith N, Tovey S, McDiarmid A, Parry G, Schueler S, **Jakovljevic DG**, MacGowan GA. (2019) Left ventricular filling pressures contribute to exercise limitation in patients with continuous flow left ventricular assist devices. *ASAIO Journal*, [Epub ahead of print on 30 October 2019]. IF:2.5
8. Koshy A, **Jakovljevic DG**, Green T, Schueler S, MacGowan GA. (2019) The role of exercise haemodynamics in assessing patients with chronic heart failure and left ventricular assist devices. *Expert Review of Medical Devices*, [accepted for publication on 30 September 2019]. IF: 2.2
9. Greenwald R, Hayat MJ, Dons E, Giles L, Villar R, **Jakovljevic DG**, Good N. Estimating minute ventilation and air pollution inhaled dose using heart rate, breath frequency, age, sex and forced vital capacity: A pooled-data analysis. *PLoS ONE* 2019, 14(7), e0218673. IF: 2.8

10. Charman S, Okwose N, Maniatopoulos G, Graziadio S, Metzler T, Banks H, Vale L, MacGowan GA, Seferović PM, Fuat A, Deaton C, Mant J, Hobbs R, **Jakovljevic DG**. (2019) Opportunities and challenges of a novel cardiac output response to stress (CORS) test to enhance diagnosis of heart failure in primary care: qualitative study. *BMJ Open*, 9(4):e028122. doi: 10.1136/bmjopen-2018-028122. IF: 2.4
11. Koshy A, Okwose NC, Nunan D, Tomsa A, Brodie DA, Doherty P, Seferovic P, Ristic A, Velicki L, Filipovic N, Popovic D, Skinner J, Bailey K, MacGowan GA, **Jakovljevic DG**. (2019) Association between heart rate variability and haemodynamic response to exercise in chronic heart failure. *Scandinavian Cardiovascular Journal*, 53(2):77-82. IF: 1.5
12. Ferrera C, Gonzalez Fernandez O, Bouzas N, Castrodeza J, Woods A, Robinson-Smith N, Tovey S, **Jakovljevic DG**, Shah A, Booth K, Parry G, Schueler S, MacGowan, GA. Neutrophil to lymphocyte ratio predicts long term outcomes with continuous flow left ventricular assist devices. *ASAIO Journal*, [Epub ahead of print on 21 Feb 2019]. IF: 2.5
13. Popovic D, Guazzi M, **Jakovljevic DG**, Lasica R, Banovic M, Ostojic M, Arena R. (2019) Quantification of coronary artery disease using different modalities of cardiopulmonary exercise testing. *International Journal of Cardiology*, 285:11-13. IF: 4.1
14. Okwose NC, Avery L, O'Brien N, Cassidy S, Charman S, Bailey K, Velicki L, Olivotto I, Brennan P, MacGowan GA, Jakovljevic DG. (2019) Acceptability, Feasibility and Preliminary Evaluation of a Novel, Personalised, Home-based Physical Activity Intervention for Chronic Heart Failure (Active-at-Home-HF): A Pilot Study. *Sports Medicine Open*, [accepted for publication on 24 September 2019]. IF: 1.14

2018

15. Charman SJ, Okwose NC, Stefanetti RA, Bailey K, Skinner J, Ristic A, Seferovic PM, Scott M, Turley S, Fuat A, Mant J, Hobbs FDR, MacGowan GA, **Jakovljevic DG**. (2018) A novel cardiac output response to stress test developed to improve diagnosis and monitoring of heart failure in primary care. *European Society of Cardiology Heart Failure*, 5(4):703-712. IF: 3.4
16. Suryanegara J, Cassidy S, Ninkovic V, Popovic D, Grbovic M, Okwose N, Trenell MI, MacGowan GG, **Jakovljevic DG**. (2018) High intensity interval training protects the heart during increased metabolic demand in patients with type 2 diabetes: a randomised controlled trial. *Acta Diabetologica*, 56(3):321-329. IF: 3.0
17. Nathania M, Hollingsworth KG, Bates M, Eggett C, Trenell MI, Velicki L, Seferovic PM, MacGowan GA, Turnbull DM, **Jakovljevic DG**. (2018) Impact of age on the association between cardiac high-energy phosphate metabolism and cardiac power in women. *BMJ Heart*, 104(2):111-118. IF: 5.1
18. Shaw A, Houghton D, Hallsworth K, **Jakovljevic DG**, Trenell MI, Cassidy S. (2018) Adiposity predicts low cardiorespiratory fitness in individuals with metabolic diseases. *Diabetes Research and Clinical Practice*, 146:300-304. IF: 3.2
19. **Jakovljevic DG**. (2018) Physical activity and cardiovascular aging: Physiological and molecular insights. Review. *Experimental Gerontology*, 109:67-74. IF: 3.1
20. Andric S, Tesic D, Somer D, Srdanovic I, Miljkovic T, **Jakovljevic DG**, Velicki L. (2018) Ventriculoatrial synchrony induced heart failure. *Acta Clinica Belgica*, 73(6):439-443. IF: 0.9
21. Velicki L, **Jakovljevic DG**, Milosavljevic AM, Todicić M, Rajic J, Fabri M. (2018) Dynamic right ventricular outflow tract obstruction caused by a large interventricular membranous septal aneurysm. *Netherland Heart Journal*, 26(11):575-576. IF: 2.0
22. Okwose NC, Chowdhury S, Houghton D, Trenell MI, Eggett C, Bates M, MacGowan GA, **Jakovljevic DG**. (2018) Comparison of cardiac output estimates by bioactance and inert gas rebreathing methods during cardiopulmonary exercise testing. *Clinical Physiology and Functional Imaging*, 38:483-490 IF: 2.3
23. Oggioni C, **Jakovljevic DG**, Klonizakis M, Ashor AW, Ruddock A, Ranchordas M, Williams E, Siervo M. (2018) Dietary nitrate does not modify blood pressure and cardiac output at rest and

during exercise in older adults: a randomised cross-over study. *International Journal of Food Sciences and Nutrition*, 69:74-83 IF: 2.8

2017

24. **Jakovljevic DG**, Yacoub MH, Schueler S, MacGowan GA, Velicki L, Seferovic PM, Hothi S, Tzeng BH, Brodie DA, Birks EJ, Tan LB. (2017) Left ventricular assist device as a bridge to recovery for patients with advanced heart failure. *Journal of the American College of Cardiology*, 69(15):1924-1933 IF: 19.9
25. **Jakovljevic DG**, MacGowan GA, Birks EJ. (2017) Reply: Left Ventricle Assist Device Recovery Should Include Recovery of Ventilatory and Autonomic Nervous System Abnormalities. *Journal of the American College of Cardiology*, 70(12):1538-1539 IF: 19.9
26. McCoy J, Bates M, Eggett C, Siervo M, Cassidy S, Newman J, Moore SA, Gorman G, Trenell MI, Velicki L, Seferovic PM, Cleland JGF, MacGowan GA, Turnbull DM, **Jakovljevic DG**. (2017) Pathophysiology of exercise intolerance in chronic diseases. *BMJ Open Heart*, 28;4(2):e000632

2016

27. Njimanze H, Warren C, Eggett C, MacGowan G, Bates M, Siervo M, Ivkovic S, Trenell MI, **Jakovljevic DG**. Cardiac autonomic function decline with aging is not attenuated with increased physical activity. *Oncotarget/Aging & Gerotarget*; 7(47):76390-76397. IF: 5.2
28. Charman SJ, van Hees VT, Quinn L, Dunford JR, Bawamia B, Veerasamy M, Trenell MI, **Jakovljevic DG**, Kunadian V. (2016) The effect of percutaneous coronary intervention on habitual physical activity in older patients. *BMC Cardiovascular Disorders*; Dec 3;16(1):248. IF:1.9
29. Siervo M, Oggioni C, **Jakovljevic DG**, Trenell M, Mathers JC, Houghton D, Celis-Morales C, Ashor AW, Ruddock A, Ranchordas M, Klonizakis M, Williams EA. Dietary nitrate does not affect physical activity or outcomes in healthy older adults in a randomized, cross-over trial. *Nutrition Research*; 36(12):1361-1369. IF:2.5
30. Ninkovic VM, Miloradovic V, Stanojevic D, Babic M, Giga V, Trenell MI, Lalic N, Seferovic PM, **Jakovljevic DG**. (2016) Prevalence and risk factors of prolonged QT interval and QT dispersion in patients with type 2 diabetes. *Acta Diabetologica*. 53(5):737-44. IF:3.3
31. Perkins RE, Hollingsworth KG, Eggett C, MacGowan GA, Bates MGD, Trenell MI, **Jakovljevic DG**. (2016). Relationship between bioreactance and magnetic resonance imaging stroke volumes. *British Journal of Anaesthesia*, 117(1):134-6. IF: 6.2
32. Houghton D, Jones T, Cassidy S, Siervo M, MacGowan GA, Trenell MI, **Jakovljevic DG**. (2016) The effect of age on the relationship between cardiac and vascular function. *Mechanisms of Ageing and Development*; 15;153:1-6. IF: 3.1
33. Moore SA, **Jakovljevic DG**, Ford GA, Rochester L, Trenell MI. (2016) Exercise induces peripheral muscle but not cardiac adaptations after stroke: A randomized controlled pilot trial. *Archives of Physical Medicine and Rehabilitation*, 2016; 97(4):596-603. IF:3.0
34. Cassidy S, Thoma C, Hallsworth K, Hollingsworth KG, Taylor R, **Jakovljevic DG**, Trenell MI. (2016) High intensity intermittent training improves cardiac function and reduces liver fat in people with type 2 diabetes: a randomised controlled trial. *Diabetologia*, 59(1):56-66. IF: 6.1

2015

35. **Jakovljevic DG**, Papakonstantinou L, Blamire AM, MacGowan GA, Taylor R, Hollingsworth KG, Trenell MI. (2015) The effect of daily physical activity on age-related changes in cardiac function and performance in women. *Circulation Cardiovascular Imaging*;8(1):e002086. DOI: 10.1161/CIRCIMAGING.114.002086. IF:6.7
36. Jones T, Houghton D, Cassidy S, MacGowan GA, Trenell MI, **Jakovljevic DG**. (2015) Bioreactance is reliable method for estimating cardiac output at rest and during exercise. *British Journal of Anaesthesia*, 115(3):386-91. IF: 6.2
37. Cassidy S, Hallsworth K, Thoma C, McGowan GA, Hollingsworth KG, Day C, Taylor R, **Jakovljevic DG**, Trenell MI. (2015) Cardiac structure and function are altered in type 2 diabetes and

non-alcoholic fatty liver disease and associated with glycemic control. *Cardiovascular Diabetology*. 2015 Feb 13;14:23. doi: 10.1186/s12933-015-0187-2. IF:4.8

38. Moore SA, Hallsworth K, **Jakovljevic DG**, Blamire AM, He J, Ford GA, Rochester L, Trenell MI (2015) Effects of community exercise therapy on metabolic, brain, physical, and cognitive function following stroke: A randomized controlled pilot trial. *Neurorehabilitation and Neural Repair*, 29(7):623-35. IF: 4.6
39. Ashor AW, Siervo M, Lara J, Celis-Morales C, Oggioni C, **Jakovljevic DG**, Mathers JC. (2015) Exercise modalities and endothelial function: A systematic review and dose-response meta-analysis of randomized controlled trials. *Sports Medicine*, 45(2):279-96. IF: 6.8

2014

40. **Jakovljevic DG**, Trenell MI, MacGowan GA (2014) Bioimpedance and bioreactance methods for monitoring cardiac output. *Best Practice & Research: Clinical Anaesthesiology*, 28(4): 381-394. IF:TBC
41. **Jakovljevic DG**, McDiarmid A, Hallsworth K, Seferovic PM, Parry G, Schueler S, Trenell MI, MacGowan GA. (2014) The effect of left ventricular assist device implantation and heart transplantation on physical activity and quality of life. *American Journal of Cardiology*, 114(1):88-93. IF:3.4
42. Galna B, Newman J, **Jakovljevic DG**, Bates MG, Schaefer AM, McFarland R, Turnbull DM, Trenell MI, Gorman GS, Rochester L. (2014) Discrete gait characteristics are associated with m.3243A>G and m.8344A>G variants of mitochondrial. *Journal of Neurology*, 262(1):73-82. IF: 3.8

2013

43. **Jakovljevic DG**, Hallsworth K, Zalewski P, Thoma C, Klawe J, Day CP, Newton J, Trenell MI. (2013) Resistance exercise improves autonomic regulation at rest and haemodynamic response to exercise in non-alcoholic fatty liver disease. *Clinical Science*, 125(3):143-9. IF:5.0
44. Nunan D, Sandercock GR, George RS, **Jakovljevic DG**, Donovan G, Bougard R, Yacoub MH, Brodie DA, Birks EJ. (2013) Cardiovascular autonomic control in patients undergoing left ventricular assist device (LVAD) support and pharmacologic therapy. *International Journal of Cardiology*, 168(4):4145-49. IF: 6.2
45. Ninkovic VM, Peunicic JZ, Ninkovic S, Miloradovic VM, Giga V, **Jakovljevic DG**. (2013) Predictors of in-hospital mortality in patients with acute inferior infarction of the left ventricle accompanied by right ventricular infarction when treated with percutaneous coronary intervention. *Journal of Clinical and Experimental Cardiology*, 4(7): 1-6. IF:TBC
46. Bates MG, Newman JH, **Jakovljevic DG**, Hollingsworth KG, Alston CL, Zalewski P, Klawe JJ, Blamire AM, Macgowan GA, Keavney BD, Bourke JP, Schaefer A, McFarland R, Newton JL, Turnbull DM, Taylor RW, Trenell MI, Gorman GS. (2013) Defining cardiac adaptations and safety of endurance training in patients with m.3243A>G-related mitochondrial disease. *International Journal of Cardiology*, 168(4):3599-608. IF: 6.2
47. Hallsworth K, Hollingsworth KG, Thoma C, **Jakovljevic DG**, MacGowan GA, Anstee QM, Taylor R, Day CP, Trenell MI. (2013) Cardiac structure and function are altered in adults with non-alcoholic fatty liver disease. *Journal of Hepatology*, 58(4):757-62. IF: 12.5
48. Campbell MD, Walker M, Trenell MI, **Jakovljevic DG**, Stevenson EJ, Bracken RM, Bain SC, West DJ. (2013) Large pre- and post-exercise rapid-acting insulin reductions preserves glycemia and prevents early- but not late-onset hypoglycemia in patients with type 1 diabetes. *Diabetes Care*, 36(8):2217-24. IF:11.9
49. Detko E, O'Hara JP, Thelwall PE, Smith FE, **Jakovljevic DG**, King RF, Trenell MI. (2013) Liver and muscle glycogen repletion using ¹³C magnetic resonance spectroscopy following ingestion of maltodextrin, galactose, protein and amino acids. *British Journal of Nutrition*, 110(5):848-55. IF:3.7
50. Klasnja AV, **Jakovljevic DG**, Barak OF, Popadic Gacesa JZ, Lukac DD, Grujic NG. (2013) Cardiac power output and its response to exercise in athletes and non-athletes. *Clinical Physiology and Functional Imaging*, 33(3):201-5. IF: 2.3

2012

51. **Jakovljevic DG**, Moore SA, Tan LB, Rochester L, Ford GA, Trenell MI. (2012) Discrepancy between cardiac and physical functional reserves in stroke. *AHA Stroke*, 43(5):1422-5. IF: 5.8
52. **Jakovljevic DG**, Seferovic PM, Nunan D, Donovan G, Trenell MI, Grocott-Mason R, Brodie DA. (2012) Reproducibility of cardiac power output and other cardiopulmonary exercise indices in patients with chronic heart failure. *Clinical Science*, 122(4):175-181. IF:5.0
53. Bates MG, Hollingsworth KG, Newman J, **Jakovljevic DG**, Dixon BJ, Blamire AM, MacGowan GA, Keavney BD, Chinnery PF, Turnbull DM, Taylor RW, Trenell MI, Gorman GS. (2012) Concentric hypertrophic remodeling and subendocardial dysfunction in mitochondrial DNA point mutation carriers. *European Heart Journal Cardiovascular Imaging*, 14(7):650-8. IF:6.0
54. **Jakovljevic DG**, Popadic-Gacesa JZ, Barak O, Nunan D, Donovan G, Trenell MI, Grujic N, Brodie DA. (2012) Relationship between peak cardiac power output and selected exercise-derived surrogates of cardiac function in healthy adults. *Clinical Physiology and Functional Imaging*, 32(5):388-93. IF: 2.3
55. **Jakovljevic DG**, Moore S, Hallsworth K, Fattakhova G, Thoma C, Trenell MI. (2012) Comparison of cardiac output determined by bioimpedance and bioreactance methods at rest and during exercise. *Journal of Clinical Monitoring and Computing*, 26(2):63-8. IF: 2.2
56. Jones DEJ, Hollingsworth KG, **Jakovljevic DG**, Fattakhova G, Pairman J, Blamire AM, Trenell MI, Newton JL. (2012) Loss of capacity to recover from acidosis on repeat exercise in chronic fatigue syndrome. *European Journal of Clinical Investigation*, 42:186-194. IF: 2.8

2011

57. **Jakovljevic DG**, Birks EJ, George RS, Trenell MI, Seferovic PM, Yacoub MH, Brodie DA. (2011) Relationship between peak cardiac pumping capability and selected exercise-derived prognostic indicators in patients treated with left ventricular assist devices. *European Journal of Heart Failure*, 13(9):992-999. IF: 7.0
58. Barak OF, Ovcin ZB, **Jakovljevic DG**, Lozanov-Crvenkovic Z, Brodie DA, Grujic NG. (2011) Heart rate recovery after submaximal exercise in four different recovery protocols in male athletes and non-athletes. *Journal of Sports Science and Medicine*, 10(2):369-375. IF: 0.9

2010

59. **Jakovljevic DG**, George RS, Donovan G, Nunan D, Henderson K, Bougard RS, Yacoub MH, Birks EJ, Brodie DA. (2010) Comparison of cardiac power output and exercise performance in patients with left ventricular assist devices, explanted (recovered) patients and those with moderate to severe heart failure. *American Journal of Cardiology*, 105(12):1780-1785. IF:3.4
60. **Jakovljevic DG**, George RS, Nunan D, Donovan G, Bougard RS, Yacoub MH, Birks EJ, Brodie DA. (2010) The impact of acute reduction of continuous-flow left ventricular assist device support on cardiac and exercise performance. *Heart*, 96(17):1390-1395. IF: 6.1
61. **Jakovljevic DG**, Donovan G, Nunan D, McDonagh S, Trenell MI, Grocott-Mason R, Brodie DA. (2010) The effect of aerobic versus resistance exercise training on peak cardiac power output and physical functional capacity in patients with chronic heart failure. *International Journal of Cardiology*, 145(3):526-528. IF: 6.2
62. Nunan D, **Jakovljevic DG**, Donovan G, Hodges LD, Sandercock GRH, Brodie DA. (2010) Resting autonomic modulations and the heart rate response to exercise. *Clinical Autonomic Research*, 20(4): 213-221. IF: 1.9
63. Popadic-Gacesa JZ, **Jakovljevic DG**, Kozic D, Dragnic NR, Brodie DA, Grujic NG. (2010) Morpho-functional response of the elbow extensor muscles to twelve week self-perceived maximal resistance training. *Clinical Physiology and Functional Imaging*, 30(6):413-419. IF: 2.3
64. Elliott A, Hull J, Nunan D, **Jakovljevic DG**, Brodie DA, Ansley L. (2010) Application of bioreactance for cardiac output assessment in healthy individuals. *European Journal of Applied Physiology*, 109(5):945-951. IF: 2.3

65. Barak OF, **Jakovljevic DG**, Popadic-Gacesa JZ, Brodie DA, Grujic NG. (2010) Heart rate variability before and after cycle exercise in relation to different body positions. *Journal of Sport Science and Medicine*, 9:176-182. IF: 0.9
66. Ostojic SM, Markovic G, Calleja-Gonzalez J, **Jakovljevic DG**, Vucetic V, Stojanovic MD. (2010) Ultra short-term heart rate recovery after maximal exercise in continuous versus intermittent endurance athletes. *European Journal of Applied Physiology*, 108(5):1055-1059. IF: 2.3

2009

67. **Jakovljevic DG**, McConnell AK. (2009) Influence of different breathing frequencies upon the severity of inspiratory muscle fatigue induced by high intensity front crawl swimming. *Journal of Strength and Conditioning Research*, 23(4):1169-1174. IF: 2.1
68. Popadic-Gacesa JZ, Kozic D, Dragnic NR, **Jakovljevic DG**, Brodie DA, Grujic NG. (2009) Changes of functional status and volume of triceps brachii measured by magnetic resonance imaging after maximal resistance training. *Journal of Magnetic Resonance Imaging*, 29(3):671-676. IF: 3.1
69. Nunan D, Donovan G, **Jakovljevic DG**, Hodges LD, Sandercock GRH, Brodie DA. (2009) Validity and reliability short-term heart rate variability from the Polar S810. *Medicine and Science in Sport and Exercise*, 41(1): 243-250. IF: 4.5

2008

70. **Jakovljevic DG**, Nunan D, Donovan G, Hodges LD, Sandercock GRH, Brodie DA. (2008) Comparison of cardiac output determined by different rebreathing methods at rest and at peak exercise. *European Journal of Applied Physiology*, 102(5):593-599. IF: 2.3
71. Nunan D, **Jakovljevic DG**, Donovan G, Hodges LD, Sandercock GRH, Brodie DA. (2008) Levels of agreement for RR intervals and short-term heart rate variability obtained from the Polar S810 and an alternative system. *European Journal of Applied Physiology*, 103(5):529-537. IF: 2.3
72. **Jakovljevic DG**, Nunan D, Donovan G, Hodges LD, Sandercock GRH, Brodie DA. (2008) Lack of agreement between gas exchange variables measured by two metabolic systems. *Journal of Sport Science and Medicine*, 7(1):15-22. IF: 0.9

Published abstracts presented at professional meetings (refereed)

1. Fatrin S, Okwose NC, Bailey K, Velicki L, Ninkovic V, Seferovic PM, MacGowan GA, **Jakovljevic DG**. Relationship between functional capacity, haemodynamic response to exercise and quality of life in chronic heart failure. *European Society of Cardiology Heart Failure Association Annual Congress, Athens, Greece, 25 – 28 May 2018*.
2. Metzler T, Okwose N, Hanssen H, Deiseroth A, MacGowan GA, **Jakovljevic DG**. Arterial Stiffness in younger patients with rheumatoid disease is equivalent to that of older patients with chronic heart failure. *European Society of Cardiology EuroPrevent Congress, Lisbon, Portugal, 11-13 April 2019*.
3. Okwose NC, Avery L, O'Brien N, Cassidy S, Charman S, Bailey K, MacGowan GA, Jakovljevic DG. A personalised home-based physical activity intervention for chronic heart failure: do physiological changes correspond with patients experience? *American Heart Association Epidemiology, Prevention, Lifestyle and Cardiometabolic Health Annual Conference, Houston, Texas, 5-8 March 2019*.
4. Koshy A, Green T, Fernandez OG, Schueler S, **Jakovljevic DG**, MacGowan GA. Invasive exercise haemodynamics predict functional capacity in patients with advanced heart failure implanted with a left ventricular assist device. *European Society of Cardiology Annual Congress, Munich, Germany, 25-29 August 2018*.
5. Parovic M, Okwose NC, Bailey K, Velicki L, Fras Z, Seferovic PM, MacGowan GA, **Jakovljevic DG**. N-terminal prohormone brain natriuretic peptide is a weak indicator of cardiac function and haemodynamic response to exercise in chronic heart failure. *European Society of Cardiology Heart Failure Association Annual Congress, Vienna, Austria, 26 – 29 May 2018*. *European Journal of Heart Failure*; 2017; 20 (S1), 39-41.

6. Charman SJ, Okwose NC, Stefanetti RJ, Bailey K, Skinner J, Scott M, Mant J, Hobbs RFD, MacGowan GA, **Jakovljevic DG**. A Novel Cardiac Output Response to Stress Test Developed to Improve Diagnosis and Monitoring of Heart Failure in Primary Care. *British Journal of General Practice Research Conference, 23 March, 2018, London. Br J Gen Pract* 2018; 68 (suppl 1): bjgp18X697109.
7. Charman SJ, Brown E, Okwose NC, Markovic M, Ropret R, Cassidy S, MacGowan GA, **Jakovljevic DG**. Increased level of habitual physical activity improves body composition and exercise tolerance but has limited effect on cardio-metabolic function in middle-aged women. In: 5th UK Congress on Obesity. 2018, Newcastle upon Tyne, UK.
8. Okwose N, Avery L, O'Brien N, Cassidy S, Charman S, Bailey K, Skinner J, MacGowan GA, **Jakovljevic DG**. Exploring barriers and facilitators of adults with heart failure to participation in a Home-based physical activity Program: A qualitative study. *Aging & Society: Seventh Interdisciplinary Conference, 3-4 November 2017, Berkeley, USA*
9. Okwose N, Cassidy S, Bailey K, Skinner J, Macgowan G, **Jakovljevic DG**. Haemodynamic effects of a novel, personalised, home-based physical activity intervention for chronic heart failure – a pilot study. *European Society of Cardiology Heart Failure Association Annual Congress, Paris, France, 29 April – 02 May 2017. European Journal of Heart Failure*; 2017; 19 (S1): 489-490
10. Scragg J, Okwose N, Cassidy S, Macgowan G, Bailey K, Skinner J, **Jakovljevic DG**. Association between physical activity and cardiac performance in chronic heart failure. *European Association for Cardiovascular Prevention and Rehabilitation Annual Congress, Malaga, Spain, 6-8 April 2017.*
11. Nathania M, Hollingsworth KG, MacGowan GA, Trenell MI, **Jakovljevic DG**. The role of cardiac high energy phosphate metabolism in cardiac function and performance: The impact of age. *8th Global Cardiologists Annual Meeting, Berlin, Germany, 18-20 July 2016.*
12. Denton SJ, van Hees VT, Bawamia B, Veerasamy M, Quinn L, Dunford JR, Trenell MI, **Jakovljevic DG**, Kunadian V. Sedentary behaviour and physical activity among older patients following percutaneous coronary intervention presented with stable angina versus acute coronary syndrome. *Presented at American Heart Association Annual Congress, Chicago, Illinois, USA, 15-19 November 2014.*
13. Cassidy S, Hallsworth K, MacGowan GA, Hollingsworth KG, Taylor R, **Jakovljevic DG**, Trenell MI. Cardiac structure and function is altered in adults with metabolic disorders. In: *Diabetes UK Annual Professional Conference. Liverpool, UK, 5-7 March 2014.*
14. Jones KL, Whittaker RG, Miller JA, **Jakovljevic DG**, Turnbull DM, Gorman GS. The effects of high intensity interval training on clinical symptoms and functional capacity in patients with neuromuscular disease. *Presented at the Association of British Neurologist Annual Meeting, Glasgow, UK, 21-24 May 2013.*
15. Newman J, Galna B, **Jakovljevic DG**, Bates MG, Schaefer AM, McFarland R, Turnbull DM, Trenell MI, Taylor RW, Rochester L, Gorman GS. Preliminary evaluation of functional outcome measures in mitochondrial disease. *Presented at the 6th Annual Translational Research Conference, Oxford, UK, 14-15 March 2013.*
16. Hallsworth K, Hollingsworth KG, Thoma C, **Jakovljevic DG**, MacGowan GA, Anstee QM, Day CP, Taylor R, Trenell MI. Cardiac function improves following high intensity intermittent exercise in adults with non-alcoholic fatty liver disease. In: *Diabetes UK Annual Professional Conference. Manchester, UK, 13-15 March 2013. Diabetic Medicine*, 30 (Suppl.), 9, 2013.
17. Campbell MD, Walker M, Trenell MI, Stevenson EJ, **Jakovljevic DG**, Bracken RM, Bain SC, Turner D, West DJ. The preservation of glycaemia through large pre- and postexercise rapid-acting insulin reductions prevents early, but not late-onset hypoglycaemia in individuals with Type 1 Diabetes. In: *Diabetes UK Annual Professional Conference. Manchester, UK, 13-15 March 2013. Diabetic Medicine*, 30 (Suppl.), 9, 2013.
18. Jones KL, Whittaker RG, Miller JA, **Jakovljevic DG**, Turnbull DM, Gorman GS. Can high intensity interval training improve functional capacity and clinical symptoms in inflammatory and mitochondrial myopathies? *Presented at the 6th Annual Translational Research Conference, Oxford, UK, 14-15 March 2013.*

19. McDiarmid A, MacGowan GA, Parry G, Schueler S, Trenell MI, **Jakovljevic DG**. Left ventricular assist device implantation significantly improves everyday physical activity and quality of life in patients with chronic heart failure. *Presented at the Annual Congress of the International Society for Heart and Lung Transplantation, Prague, Czech Republic, 18-21 April 2012.*
20. Moore SA, **Jakovljevic DG**, Ford GA, Rochester L, Trenell MI. The effect of a community exercise intervention on physiological and physical function following stroke: A randomized, controlled trial. *European Stroke Conference, Lisbon, Portugal 22-25 May 2012.*
21. Bates MGD, Hollingsworth KG, Newman J, **Jakovljevic DG**, Keavney BD, Blamire AM, MacGowan GA, Chinnery PF, Turnbull DM, Taylor RW, Trenell MI, Gorman GS. Concentric hypertrophic remodelling and subendocardial dysfunction in mitochondrial DNA point mutation carriers. *In: Annual Conference of the British Cardiovascular Society (BCS). 2012, Manchester, UK: BMJ Group.*
22. Newman J, **Jakovljevic DG**, Bates MG, Turnbull DM, Galna B, Trenell MI, Gorman GS. Improving clinical trials evaluation: physiological and functional correlates in mitochondrial disease. *In: United Kingdom Neuromuscular Translational Research Conference. 2012, Newcastle upon Tyne, UK: Elsevier*
23. Bates MG, Hollingsworth KG, Newman J, **Jakovljevic DG**, Dixon BJ, Blamire AM, MacGowan GA, Keavney BD, Chinnery PF, Turnbull DM, Taylor RW, Trenell MI, Gorman GS. Evidence of early cardiac impairment in m.3243A > G mutation carriers. *In: United Kingdom Neuromuscular Translational Research Conference. 2012, Newcastle upon Tyne, UK: Elsevier Ltd.*
24. Moore SA, **Jakovljevic DG**, Tan LB, Rochester L, Ford G, Trenell MI. Exercise capacity is limited by the ability of working muscles to extract oxygen not cardiac function following stroke. *In Proceedings of the UK Stroke Forum Conference, Glasgow, Scotland, 29 Nov – 01 Dec 2011.*
25. Bates MGD, Hollingsworth KG, Newman J, **Jakovljevic DG**, Keavney BD, Blamire AM, MacGowan GA, Chinnery PF, Turnbull DM, Taylor RW, Trenell MI, Gorman GS. Concentric hypertrophic remodelling and subendocardial dysfunction in mitochondrial DNA point mutation carriers. *British Cardiovascular Society Annual Conference, Manchester, 28-30 May 2011.*
26. **Jakovljevic DG**, Papakonstantinou L, Taylor R, MacGowan G, Trenell MI. Every day physical activity protects against the age related decline in aerobic function but not cardiac pumping capability in normoglycemic women. *In Proceedings of the Diabetes and Cardiovascular Disease EASD Study Group, Belgrade, Serbia, 11-13 November 2010.*
27. **Jakovljevic DG**, Birks EJ, Yacoub MH, Goldspink DF, Tan LB, Brodie DA. Can non-pulsatile continuous-flow left ventricular assist devices confer physiologically desirable cardiac and physical functional benefits during peak exercise? *In Proceedings of the British Cardiovascular Society Annual Congress, Manchester, England, 07 – 09 June 2010 – Heart, 96 (Suppl. 1), A4-A5*
28. Donovan G, **Jakovljevic DG**, Nunan D, Brodie DA. The effects of body position and gender on heart rate recovery. *In Proceedings of the Europrevent, Prague, Czech Republic, 05 – 07 May 2010.*
29. Donovan G, **Jakovljevic DG**, Nunan D, Brodie DA. The effects of body positions and gender on heart rate recovery. *In Proceedings of the British Association of Sport and Exercise Sciences (BASES), Leeds, England, 01 – 03 September 2009.*
30. **Jakovljevic DG**, George RS, Donovan G, Nunan D, Bougard RS, Birks EJ, Yacoub MH, Brodie DA. Resting and exercise haemodynamic and metabolic responses to acute reduction of continuous-flow left ventricular assist device support. *In Proceedings of the European Society of Cardiology Congress, Barcelona, Spain, 29 August – 02 September 2009 – Eur Heart J, 30 (Abstract suppl).*
31. Nunan D, **Jakovljevic DG**, Donovan G, Sandercock GRH, Grocott-Mason R, McDonagh S, Brodie DA. Measures of heart rate variability from the Polar S810 and HRV analysis software 1.1: A validity and reliability study in chronic heart failure. *In Proceedings of the European Society of Cardiology Congress, Barcelona, Spain, 29 August – 02 September 2009 – Eur Heart J, 30 (Abstract suppl).*
32. Donovan G, George RS, Nunan D, **Jakovljevic DG**, Bougard RS, Birks EJ, Yacoub MH, Brodie DA. Effects of left ventricular assist devices on heart rate and $\dot{V}O_2$ recovery trends following peak exercise: full vs reduced support. *In Proceedings of the European Society of Cardiology Congress, Barcelona, Spain, 29 August – 02 September 2009 – European Heart Journal, 30 (Abstract suppl).*

33. **Jakovljevic DG**, Donovan G, Nunan D, Grocott-Mason R, McDonagh S, Brodie DA. The effect of aerobic versus resistance exercise training on cardiac power output and selected cardio-respiratory variables in patients with stable chronic heart failure. In *Proceedings of the Heart Failure Congress – Heart Failure Association (European Society of Cardiology), Nice, France, 29 May – 02 June 2009* - European Journal of Heart Failure, suppl. 8(2), 138.
34. Donovan G, Nunan D, **Jakovljevic DG**, Grocott-Mason R, McDonagh S, Brodie DA. Heart rate recovery following either an aerobic or resistance exercise intervention in two participants with chronic heart failure: a case study. In *Proceedings of the Annual Conference of the British Association for Cardiac Rehabilitation, York, England, 4 – 5 October 2008*.
35. **Jakovljevic DG**, Nunan D, Donovan G, George RS, Bougard RS, Birks EJ, Yacoub MH, Brodie DA. Relationship between peak cardiac power output and selected cardio-pulmonary variables in patients on left ventricular assist devices, explanted (recovered) patients and those with severe heart failure. In *Proceedings of the Heart Failure Congress – Heart Failure Association (European Society of Cardiology), Milan, Italy, 14 – 17 June 2008* – Eur J Heart Fail, 7, suppl. 1, 73(287).
36. **Jakovljevic DG**, Donovan G, Nunan D, George RS, Bougard RS, Birks EJ, Yacoub MH, Brodie DA. Cardiac power output measurements in patients on left ventricular assist devices, explanted (recovered) patients and those with severe heart failure. In *Proceedings of the Europrevent Conference – European Association for Cardiovascular Prevention and Rehabilitation (Eur Soc of Cardiology), Paris, France, 1 – 3 May 2008* - Eur J Cardiovasc PrevRehab, 15, suppl. 1, 111(487).
37. **Jakovljevic DG**, Nunan D, Donovan G, George RS, Bougard RS, Birks EJ, Yacoub MH, Brodie DA. Current tendencies in cardiopulmonary exercise testing in heart failure – role of cardiac power output. In *Proceedings of the International Scientific Conference “Physical Activity and Health”, Faculty of Sport, Belgrade University, Serbia, 10 – 11 December 2007*.
38. Nunan D, Donovan G, **Jakovljevic DG**, Sandercock GRH, George RS, Yacoub MH, Bougard RS, Birks EJ, Brodie DA. Assessing autonomic and cardiac function during ‘bridge-to-recovery’ using left ventricular assist device combination therapy – a case study comparison. In *Proceedings of the British Association for Cardiac Rehabilitation – British Cardiovascular Society, Cardiff, Wales, 21 – 22 September 2007*.
39. **Jakovljevic DG**, Donovan G, Nunan D, Hodges L, Sandercock G, Brodie DA. Three different rebreathing methods for measuring cardiac output at rest. In *Proceedings of the 12th annual congress of the European College of Sport Science, Jyväskylä, Finland, 11 - 14 July 2007*.
40. Nunan D, **Jakovljevic DG**, Donovan G, Hodges L, Sandercock G, Brodie DA. The reliability of the Polar S810 heart rate monitor and advanced analysis software to assess heart rate variability. In *Proceedings of the 12th annual congress of the European College of Sport Science, Jyväskylä, Finland, 11 - 14 July 2007*.
41. **Jakovljevic DG**, Nunan D, Donovan G, Hodges L, Sandercock G, Brodie DA. Direct comparison of two automated metabolic gas analysis systems during exercise. In *Proceedings of the 12th annual congress of the European College of Sport Science, Jyväskylä, Finland, 11 - 14 July 2007*.
42. Hodges L, **Jakovljevic DG**, Brodie DA. The measurement of cardiac power output using a non-invasive rebreathing method. In *Proceedings of the main meeting of the Physiological Society, London, England, 4 - 7 July 2006*.
43. **Jakovljevic DG**, McConnell AK. Influence of different breathing frequencies upon inspiratory muscle fatigue induced by high intensity front crawl swimming. In *Proceedings of the 10th annual congress of the European College of Sport Science, Belgrade, Serbia, 13 - 16 July 2005*.

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