

ИМЕ И ПРЕЗИМЕ: Ђорђе Јаковљевић (име и презиме и универзитет)

РАДОВИ У МЕЂУНАРОДНИМ ЧАСОПИСИМА

Total of 72 published manuscript in leading international journals in the field of cardiology, sports medicine and applied physiology.

2019

1. 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
2. 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
3. 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
4. Koshy A, Green T, Toms A, Cassidy S, Schueler S, **Jakovljevic DG**, MacGowan GA. (2019) The role of exercise hemodynamics 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
5. 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
6. 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
7. 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

	<p>chronic heart failure. <i>Scandinavian Cardiovascular Journal</i>, 53(2):77-82. IF: 1.5</p> <p>8. 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. <i>ESC Heart Failure</i>, 6(2):449-454. IF: 3.4</p> <p>9. 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. <i>ASAIO Journal</i>, [Epub ahead of print on 21 Feb 2019]. IF: 2.5</p> <p>10. 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. <i>International Journal of Cardiology</i>, 285:11-13. IF: 4.1</p> <p>11. 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. <i>Experimental Gerontology</i>, 116: 31-36. IF: 3.1</p> <p>12. 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. <i>International Journal of Sports Medicine</i>, 40:125-132. IF: 2.1</p> <p>13. 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. <i>Diabetes and Vascular Disease Research</i>, 16:69-76. IF: 2.4</p> <p>14. MacGowan GA, Jakovljevic DG. (2019) Exercise hemodynamics to evaluate the breathless patient: Defining the normal pulmonary arterial wedge pressure. <i>Journal of Cardiac Failure</i>, 25:123-124. IF: 3.9</p> <p>2018</p> <p>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. <i>European Society of Cardiology Heart Failure</i>, 5(4):703-712. IF: 3.4</p>
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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, Todic 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 bioreactance 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

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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

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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
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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

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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
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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

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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*

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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
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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

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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

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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: 5.1
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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
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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: 1.8
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: 3.1

	<p>2009</p> <p>67. Jakovljevic DG, McConell AK. (2009) Influence of different breathing frequencies upon the severity of inspiratory muscle fatigue induced by high intensity front crawl swimming. <i>Journal of Strength and Conditioning Research</i>, 23(4):1169-1174. IF: 3.0</p> <p>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. <i>Journal of Magnetic Resonance Imaging</i>, 29(3):671-676. IF: 3.7</p> <p>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. <i>Medicine and Science in Sport and Exercise</i>, 41(1): 243-250. IF: 4.5</p> <p>2008</p> <p>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. <i>European Journal of Applied Physiology</i>, 102(5):593-599. IF: 3.1</p> <p>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. <i>European Journal of Applied Physiology</i>, 103(5):529-537. IF: 3.1</p> <p>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. <i>Journal of Sport Science and Medicine</i>, 7(1):15-22. IF: 1.8</p>
<p>РАДОВИ САОПШТЕНИ НА МЕЂУН. СКУПОВИМА</p>	<p>1. Buoza-Cruz N, Gonzales-Fernandez O, Koshy A, Okwose N, Green T, Woods A, Robinson-Smith N, Tovey S, McDiarmid A, Parry G, Schueler S, Jakovljevic DG, MacGowan GA. Elevation of right-sided pressures and right ventricular echocardiographic parameters: predictors of exercise limitation in patients with implanted continuous flow left ventricular assist devices. <i>European Society of Cardiology and World Congress of Cardiology, Paris, France, 31 August – 04 September 2019.</i></p> <p>2. 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. <i>European Society of Cardiology Heart Failure Association Annual Congress, Athens, Greece, 25 – 28 May 2018.</i></p>

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4. 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*.
5. 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*.
6. 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.
7. 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.
8. 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.
9. 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*
10. 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*

	<p><i>Congress, Paris, France, 29 April – 02 May 2017. European Journal of Heart Failure; 2017; 19 (S1): 489-490</i></p> <p>11. 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. <i>European Association for Cardiovascular Prevention and Rehabilitation Annual Congress, Malaga, Spain, 6-8 April 2017.</i></p> <p>12. 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. <i>8th Global Cardiologists Annual Meeting, Berlin, Germany, 18-20 July 2016.</i></p> <p>13. 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. <i>Presented at American Heart Association Annual Congress, Chicago, Illinois, USA, 15-19 November 2014.</i></p> <p>14. 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. <i>In: Diabetes UK Annual Professional Conference. Liverpool, UK, 5-7 March 2014.</i></p> <p>15. 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. <i>Presented at the Association of British Neurologist Annual Meeting, Glasgow, UK, 21-24 May 2013.</i></p> <p>16. 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. <i>Presented at the 6th Annual Translational Research Conference, Oxford, UK, 14-15 March 2013.</i></p> <p>17. 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. <i>In: Diabetes UK Annual Professional Conference. Manchester, UK, 13-15 March 2013. Diabetic Medicine, 30 (Suppl.), 9, 2013.</i></p> <p>18. 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. <i>In: Diabetes UK Annual Professional Conference.</i></p>
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	<p><i>Manchester, UK, 13-15 March 2013. Diabetic Medicine, 30 (Suppl.), 9, 2013.</i></p> <p>19. 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? <i>Presented at the 6th Annual Translational Research Conference, Oxford, UK, 14-15 March 2013.</i></p> <p>20. 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. <i>Presented at the Annual Congress of the International Society for Heart and Lung Transplantation, Prague, Czech Republic, 18-21 April 2012.</i></p> <p>21. 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. <i>European Stroke Conference, Lisbon, Portugal 22-25 May 2012.</i></p> <p>22. 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. <i>In: Annual Conference of the British Cardiovascular Society (BCS). 2012, Manchester, UK: BMJ Group.</i></p> <p>23. 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. <i>In: United Kingdom Neuromuscular Translational Research Conference. 2012, Newcastle upon Tyne, UK: Elsevier</i></p> <p>24. 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. <i>In: United Kingdom Neuromuscular Translational Research Conference. 2012, Newcastle upon Tyne, UK: Elsevier Ltd.</i></p> <p>25. 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. <i>In Proceedings of the UK Stroke Forum Conference, Glasgow, Scotland, 29 Nov – 01 Dec 2011.</i></p> <p>26. 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</p>
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hypertrophic remodelling and subendocardial dysfunction in mitochondrial DNA point mutation carriers. *British Cardiovascular Society Annual Conference, Manchester, 28-30 May 2011.*

27. **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.*
28. **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
29. 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.*
30. 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.*
31. **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).
32. 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).
33. 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).
34. **Jakovljevic DG**, Donovan G, Nunan D, Grocott-Mason R, McDonagh S, Brodie DA. The

	<p>effect of aerobic versus resistance exercise training on cardiac power output and selected cardio-respiratory variables in patients with stable chronic heart failure. In <i>Proceedings of the Heart Failure Congress – Heart Failure Association (European Society of Cardiology)</i>, Nice, France, 29 May – 02 June 2009 - European Journal of Heart Failure, suppl. 8(2), 138.</p> <p>35. 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 <i>Proceedings of the Annual Conference of the British Association for Cardiac Rehabilitation</i>, York, England, 4 – 5 October 2008.</p> <p>36. 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 <i>Proceedings of the Heart Failure Congress – Heart Failure Association (European Society of Cardiology)</i>, Milan, Italy, 14 – 17 June 2008 – Eur J Heart Fail, 7, suppl. 1, 73(287).</p> <p>37. 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 <i>Proceedings of the Europrevent Conference – European Association for Cardiovascular Prevention and Rehabilitation (Eur Soc of Cardiology)</i>, Paris, France, 1 – 3 May 2008 - Eur J Cardiovasc PrevRehab, 15, suppl. 1, 111(487).</p> <p>38. 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 <i>Proceedings of the International Scientific Conference “Physical Activity and Health”</i>, Faculty of Sport, Belgrade University, Serbia, 10 – 11 December 2007.</p> <p>39. 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 <i>Proceedings of the British Association for Cardiac Rehabilitation – British Cardiovascular Society</i>, Cardiff, Wales, 21 – 22 September 2007.</p> <p>40. Jakovljevic DG, Donovan G, Nunan D, Hodges L, Sandercock G, Brodie DA. Three different rebreathing methods for measuring cardiac output at rest. In <i>Proceedings of the 12th annual congress of the European College of Sport Science</i>, Jyväskylä, Finland, 11 - 14 July</p>
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	<p>2007.</p> <p>41. 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 <i>Proceedings of the 12th annual congress of the European College of Sport Science, Jyvaskyla, Finland, 11 - 14 July 2007.</i></p> <p>42. Jakovljevic DG, Nunan D, Donovan G, Hodges L, Sandercock G, Brodie DA. Direct comparison of two automated metabolic gas analysis systems during exercise. In <i>Proceedings of the 12th annual congress of the European College of Sport Science, Jyvaskyla, Finland, 11 - 14 July 2007.</i></p> <p>43. Hodges L, Jakovljevic DG, Brodie DA. The measurement of cardiac power output using a non-invasive rebreathing method. In <i>Proceedings of the main meeting of the Physiological Society, London, England, 4 - 7 July 2006.</i></p> <p>44. Jakovljevic DG, McConnell AK. Influence of different breathing frequencies upon inspiratory muscle fatigue induced by high intensity front crawl swimming. In <i>Proceedings of the 10th annual congress of the European College of Sport Science, Belgrade, Serbia, 13 - 16 July 2005.</i></p>
РЕЗУЛТАТИ У РАЗВОЈУ ОБРАЗОВНО-НАУЧНЕ ОБЛАСТИ	<p>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. 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).</p> <p>I have successfully mentored seven PhD, two MD, and 12 MRes candidates,</p>
ЦИТИРАНОСТ НАУЧНИХ РЕЗУЛТАТА	<p>Citations of published articles: Publications have been cited 1856 times so far (GoogleScholar), 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.</p>

МЕЂУНАРОДНА РЕПУТАЦИЈА	ГОСТ УРЕДНИК МЕЂУНАРОДНОГ ЧАСОПИСА	Invitation to participate as a Lead Guest Editor of: 1) Frontiers in Physiology (IF: 3.2) 2) Journal of Interventional Cardiology (IF: 2.1)
	ПРЕДСЕДАВАО МЕЂУНАРОДНИМ НАУЧНИМ КОНФЕРЕНЦИЈАМА	1. Organizer and Chairman of the International Symposium “Understanding the Ageing Heart” funded by the British Heart Foundation (Newcastle, 10-12 November 2012) 2. International Congress on Clinical Cardiology and Heart Failure (CardioS), Belgrade, Serbia, April 2015-17. 3. European Society of Cardiology Heart Failure and EuroPrevent Conferences in 2012 (Belgrade) and 2016 (Istanbul) 4. International Annual Meeting on Mechanical Circulatory Support (Newcastle) December 2017 and 2018. 3. 75th International Clinical Cardiology Congress of India, Delhi, 4-7 December 2019.
	ЧЛАНСТВО У УРЕЂИВАЧКИМ ОДБОРИМА МЕЂУНАРОДНИХ НАУЧНИХ ЧАСОПИСА	Editorial Board Member of the Heart Health: Open Access Journal.
	АУТОР МЕЂУНАРОДНЕ МОНОГРАФИЈЕ	No
НАПОМЕНА	<p>Invited presentations at international meetings:</p> <ol style="list-style-type: none"> 1. Jakovljevic DG. Are we there on the road to full cardiac recovery with mechanical unloading? <i>Cardiology Society of India 71st Annual conference at New Delhi, India, 5-8 December 2019.</i> 2. Jakovljevic DG. Mechanisms, evaluation, and clinical implications of effort intolerance in pulmonary arterial hypertension. <i>Regional Symposium: Novelty in diagnosis and treatment of pulmonary hypertension, Novi Sad, Serbia. 24-26 October 2019.</i> 3. Jakovljevic DG. Non-invasive central haemodynamic assessment during stress testing in heart failure. <i>15th Annual Conference of the European Society of Cardiology Working Group on Myocardial and Pericardial Diseases, Belgrade, Serbia, 5-7 October 2018.</i> 4. Jakovljevic DG. Improvements in exercise tolerance in patients on a long-term ventricular assist device therapy. <i>The 8th Annual Meeting on Mechanical Circulatory Support Freeman Hospital, Newcastle upon Tyne, 8 December 2017.</i> 5. Jakovljevic DG. Left Ventricular Assist Device therapy as a Bridge to Recovery in Advanced Heart Failure. <i>Institute for Cardiovascular Diseases Vojvodina, 15-16 November 2017.</i> 6. Jakovljevic DG. Resistant hypertension: drugs or renal denervation? <i>15th International</i> 	

	<p><i>Congress on Clinical Cardiology and Heart Failure (CardioS), Belgrade, Serbia, 7-9 April 2017.</i></p> <ol style="list-style-type: none"> 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. <i>Royal College of Anaesthetists Summer Symposium, Brighton, UK, 7-8 June 2016.</i> 9. Jakovljevic DG. Cardiovascular ageing and physical activity. <i>FUSE Annual Meeting - The UKCRC Centre for Translational Research in Public Health, Newcastle, UK, 19 May 2016.</i> 10. Jakovljevic DG. How to use electrical signal processing and gas rebreathing technologies to assess central haemodynamics during stress testing? <i>European Society of Cardiology Association for Cardiovascular Prevention and Rehabilitation, EuroPrevent Annual Congress. European Heart House in Sophia Antipolis, France 14-15 June 2016.</i> 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. <i>Newcastle University, 10 October 2015</i> 13. Jakovljevic DG. Applied physiology in the context of changing clinical practice and patients outcomes. <i>University of Kragujevac, 10-12 June 2015.</i> 14. Jakovljevic DG. Cardiovascular ageing: arterial stiffness predicts cardiac pumping capability in older people. <i>23rd Northern Cardiovascular Research Group Meeting, Copthorne Hotel, Newcastle, 21 April 2015.</i> 15. Jakovljevic DG. Clinical consequences of haemodynamic measurements under exercise. <i>Qatar Cardiovascular Research Centre and Heart Hospital, Doha, Qatar, 11-14 May 2014.</i> 16. Jakovljevic DG. Heart failure in diabetes: molecular and metabolic mechanisms. <i>12th International Congress on Clinical Cardiology and Heart Failure, Belgrade, Serbia, 24-27 April 2014.</i> 17. Jakovljevic DG. The effect of physical activity on cardiac ageing phenotype in women. <i>Medical</i>
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	<p><i>Research Council Lifelong Health and Wellbeing Annual Meeting. University College London, 6-8 November 2013.</i></p> <p>18. Jakovljevic DG. The impact of age and physical activity on cardiac function and performance. A cross-council research programme: <i>New Dynamics of Ageing Annual Meeting. Birmingham, 22 May 2013.</i></p> <p>19. Jakovljevic DG. The role of advanced glycation end products in cardiovascular disease. Meet the expert of translational research: <i>Molecular Basis of Heart Failure. 11th International Congress on Clinical Cardiology and Heart Failure, Belgrade, Serbia, 26-17 April 2013.</i></p> <p>20. Jakovljevic DG. Physical activity and age-related changes in aerobic and cardiac function. <i>MRC Centre for Integrated Research into Musculoskeletal Ageing. Liverpool, 27 February 2013.</i></p> <p>21. Jakovljevic DG. Current tendencies in cardiopulmonary exercise testing: non-invasive assessment of cardiac power output. <i>Magdi Yacoub Heart Foundation, Aswan Heart Centre, Egypt, 13-14 Oct 2012.</i></p> <p>22. Jakovljevic DG. Neurohumoral system activation blockade: basis for prevention and treatment of heart failure. <i>European Society of Cardiology Heart Failure Congress, Belgrade, Serbia, 19-22 May 2012.</i></p> <p>23. Jakovljevic DG. Congress Highlights - Basic Sciences. <i>European Society of Cardiology Heart Failure Congress, Belgrade, Serbia, 19-22 May 2012.</i></p> <p>24. Jakovljevic DG. Left ventricular assist devices improve cardiac and physical function in patients with severe heart failure. <i>Medical School, University of Novi Sad, Novi Sad, Serbia. 29 May 2011</i></p> <p>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 <i>Buckinghamshire New University, Coventry University, Gloucester University and Worcester University, Coventry, 30 June 2010 (First Prize Winner - Best Applied Research Competition Award).</i></p> <p>26. Jakovljevic DG. Exercise intolerance and cardiac power output in chronic heart failure. <i>Freeman Hospital, Newcastle upon Tyne, 16 March 2010.</i></p> <p>27. Jakovljevic DG. Cardiopulmonary exercise testing in heart failure. Staff Symposium, Faculty of Society and Health, Buckinghamshire New University, <i>Chalfont Campus, 09 January 2009.</i></p> <p>28. Jakovljevic DG. Cardiac function in patients with severe heart failure, those with implanted</p>
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	and explanted left ventricular assist devices. <i>Thematic Meeting on Clinical Consequences of Hemodynamic Measurements under Exercise Testing, Copenhagen, Denmark, 24 – 25 September 2007.</i>
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