

## Hans Strijdom

### Peer-reviewed journal articles / Book chapters:

1. **Strijdom JG**, Marais BJ, Koeslag JH. Ascorbic acid causes spuriously low blood glucose measurements. SAMJ 1993; 83: 64 – 65.
2. Marais E, Genade S, **Strijdom J**, Moolman J, Lochner A. Activation of p38 MAPK induced by a multi-cycle ischaemia preconditioning protocol associated with attenuated p38 MAPK activity during sustained ischaemia and reperfusion. J Mol Cell Cardiol 2001; 33: 769 – 778.
3. Marais E, Genade S, **Strijdom H**, Moolman J, Lochner A. P38 MAPK activation triggers pharmacologically-induced beta-adrenergic preconditioning, but not ischaemic preconditioning. J Mol Cell Cardiol 2001; 33: 2157 – 2177.
4. **Strijdom H**, Genade S, Lochner A. Nitric oxide synthase (NOS) does not contribute to simulated ischaemic preconditioning in an isolated rat cardiomyocyte model. Cardiovasc Drugs Ther 2004; 18(2): 99 – 112.
5. **Strijdom H**, Muller C, Lochner A. Direct intracellular nitric oxide detection in isolated adult cardiomyocytes: flow cytometric analysis using the fluorescent probe, diaminofluorescein. J Mol Cell Cardiol 2004; 37(4): 897 – 902.
6. **Strijdom H**, Jacobs S, Hattingh S, Page C, Lochner A. Nitric Oxide production is higher in rat cardiac microvascular endothelial cells than ventricular cardiomyocytes in baseline and hypoxic conditions: A comparative study. FASEB J. 2006; 20(2): 314-316.
7. Lampiao F, **Strijdom H**, Du Plessis S. Direct nitric oxide measurement in human spermatozoa: flow cytometric analysis using the fluorescent probe, diaminofluorescein. International Journal of Andrology 2006; 29(5): 564 - 567.
8. Esterhuyse J, Van Rooyen J, **Strijdom H**, Bester D, Du Toit E. Proposed mechanism for red palm oil induced cardioprotection in a hyperlipidaemic perfused rat heart model. Prostaglandins Leukot Essent Fatty Acids 2006; 75(6):375-84.
9. Lampiao F, **Strijdom H**, Du Plessis SS. Reactive oxygen species measurement in human spermatozoa by flow cytometry using the fluorescent probe, 2',7'-dichlorofluorescein-diacetate (DCFH-DA). Medical Technology SA 2006; 20(2): 7-8.
10. Du Toit EF, Smith W, Muller C, **Strijdom H**, Stouthammer B, Woodiwiss AJ, Norton GR, Lochner A. Myocardial susceptibility to ischemic-reperfusion injury in a prediabetic model of dietary-induced obesity. Am J Physiol Heart Circ Physiol. 2008 May; 294(5): H2336-43.
11. **Strijdom H**, Friedrich SO, Hattingh S, Chamane N, Lochner A. Hypoxia-induced regulation of nitric oxide synthase in cardiac endothelial cells and myocytes and the role of the PI3-K/PKB pathway. Mol Cell Biochem 2009; 321: 23-35.
12. **Strijdom H**, Chamane N, Lochner A. Nitric oxide in the cardiovascular system: A simple molecule with complex actions (Review). Cardiovasc J Africa 2009; 20(5): 303 – 310.

13. **Strijdom H**, Lochner A. Cardiac Endothelium: More than just a barrier (Review). SA Heart 2009; 6: 174 – 185.
14. Lampiao F, **Strijdom H**, Du Plessis SS. Effects of sperm processing techniques involving centrifugation on nitric oxide, reactive oxygen species generation and sperm function. The Open Andrology Journal 2010; 2: 1-5.
15. Veliotis DG, Norton GR, Correia RJ, **Strijdom H**, Badenhorst D, Brooksbank R, Woodiwiss AJ. Impact of Aldosterone Receptor Blockade on the Deleterious Cardiac Effects of Adrenergic Activation in Hypertensive Rats. J Cardiovasc Pharmacol 2010; 56: 203-211.
16. Huisamen B, Pêrel SJC, Friedrich SO, **Strijdom H**, Lochner A. AngII receptor antagonism improves nitric oxide production, eNOS and PKB expression in hearts from a rat model of insulin resistance. Mol Cell Biochem 2010; 349: 21-31.
17. Mudau M, Genis A, Lochner A, **Strijdom H**. Endothelial Dysfunction – the early predictor of atherosclerosis. Cardiovasc J Africa 2012; 23(4): 222-231.
18. **Strijdom H**. Endothelial Dysfunction: are we ready to heed the vasculature's early-warning signal? (Editorial). Cardiovasc J Africa 2012; 23(4): 184-185.
19. Kelly-Laubscher R, Burger G, Davies N, Engelbrecht AM, Sliwa K, **Strijdom H**, Hausenloy D, Lecour S. 2<sup>nd</sup> South Africa – United Kingdom cardiovascular workshop: Highlighting cardiovascular research in South Africa. Cardiovasc J Africa 2012; 23(10): 572-573.
20. Chellan N, Joubert E, **Strijdom H**, Roux C, Louw J, Muller CJF. Aqueous extract of unfermented Honeybush (*Cyclopia maculata*) attenuates STZ-induced diabetes and  $\beta$ -cell cytotoxicity. Planta Medica 2014; 80: 622-629.
21. Nduhirabandi, F, Huisamen B, **Strijdom H**, Blackhurst D, Lochner A. Short-term melatonin consumption protects the heart of obese rats independent of body weight change and visceral adiposity. Journal of Pineal Research 2014; 57(3): 317-332.
22. Espach Y, Lochner A, **Strijdom H**, Huisamen B. ATM protein kinase signaling, type 2 diabetes and cardiovascular disease. Cardiovascular Drugs and Therapy 2015; 29(1): 51-58.
23. **Strijdom H**, De Boever P, Nawrot TS, Goswami N. HIV/AIDS: emerging threat to cardiovascular health in sub-Saharan Africa. S Afr Med J 2016; 106(6): 537.
24. Truter D, **Strijdom H**, Everson F, Kotzé SH. Mucin secreting cells in the stomach and colon are altered by combination antiretroviral treatment in an obese rat model. Acta Histochem. 2017; 119(2): 122-128.
25. Westcott C, Genis A, Mthethwa M, Graham R, Van Vuuren D, Huisamen B, **Strijdom H**. Fenofibrate protects against the harmful effects of TNF-alpha. SA Heart. 2017; 14: 22-34.
26. **Strijdom H**, De Boever P, Walzl G, Essop MF, Nawrot TS, Webster I, Westcott C, Mashele N, Everson F, Malherbe ST, Stanley K, Kessler HH, Stelzl E, Goswami N.

Cardiovascular risk and endothelial function in people living with HIV/AIDS: design of the multi-site, longitudinal EndoAfrica study in the Western Cape Province of South Africa. *BMC Infect Dis.* 2017;17(1):41. doi:10.1186/s12879-016-2158-y.

27. Nduhirabandi F, Huisamen B, **Strijdom H**, Lochner A. Role of melatonin in glucose uptake by cardiomyocytes from insulin resistant wistar rats. *Cardiovasc J Africa.* 2017; 28: 1-9.

28. Nel S, **Strijdom H**, Genis A, Everson F, Van Wijk R, Kotzé SH. A histomorphometric study on the effects of antiretroviral therapy (ART) combined with a high-calorie diet (HCD) on aortic perivascular adipose tissue (PVAT). *Acta Histochem.* 2017; 119(5): 555-562.

29. Oyeyipo IP, Skosana BT, Everson FP, **Strijdom H** and Du Plessis SS. Highly active antiretroviral therapy alters sperm parameters and testicular antioxidant status in diet-induced obese male Wistar rats. *Toxicol Res.* 2017; 34(1): 1-8.

30. Thomas M, Davis T, Loos B, Sishi B, Huisamen B, **Strijdom H**, Engelbrecht AM. Autophagy is essential for the maintenance of amino acids and ATP levels during acute amino acid starvation in MDAMB231 cells. *Cell Biochem Funct.* 2018; 36: 65-79.

31. Truter D, Chellan N, **Strijdom H**, Webster I, Rawstorne J, Kotzé SH. Histomorphological changes in the pancreas, liver and kidney in male Wistar rats on antiretroviral therapy and melatonin treatment. *Acta Histochem.* 2018; 120(4): 347-355.

32. Everson FP, Genis A, Ogundipe TR, De Boever P, Goswami N, Lochner A, Blackhurst D, **Strijdom H**. Treatment with a fixed dose combination antiretroviral therapy drug containing tenofovir, emtricitabine and efavirenz is associated with cardioprotection in high calorie diet-induced obese rats. *PLoS ONE.* 2018; 13(12): e0208537. <https://doi.org/10.1371/journal.pone.0208537>

33. Marincowitz C, Genis A, Goswami N, De Boever P, Nawrot TS, **Strijdom H**. Vascular Endothelial Dysfunction in the wake of HIV and ART. *FEBS J.* 2019; 286(7): 1256-1270. doi: 10.1111/febs.14657.

34. Webster I, Imperial EG, Westcott C, **Strijdom H**. The cardiovascular effects of *Aspalathus linearis* supplementation in male Wistar rats receiving fixed dose combination first-line antiretroviral therapy. *Cardiovasc J Africa.* 2019; 30: 95-102. DOI: 10.5830/CVJA-2018-075

35. Katoto PDMC, Byamungu L, Brand AS, Mokaya J, **Strijdom H**, Goswami N, De Boever P, Nawrot TS, Nemery B. Ambient Air Pollution and Health in Sub-Saharan Africa: Current Evidence, Perspectives and a Call to Action. 2019. *Environ Res.* 2019; 173: 174-188. DOI: 10.1016/j.envres.2019.03.029

36. Everson F, De Boever P, Nawrot TS, Goswami N, Mthethwa M, Webster I, Martens DS, Mashele N, Charania S, Kamau F, **Strijdom H**. Personal NO<sub>2</sub> and volatile organic compounds exposure levels are associated with markers of cardiovascular risk in women in the Cape Town region of South Africa. Accepted for publication. *Int. J. Environ. Res. Public Health.* 2019; 16(13): 2284. DOI: 10.3390/ijerph16132284.

37. Kamau F, **Strijdom H**, Mwangi P, Blackhurst D, Imperial E, Salie R. Antiretroviral drug-induced endothelial dysfunction is improved by dual PPAR $\alpha$ / $\gamma$  stimulation in obesity. *Vasc Pharmacol*. 2019; 121: 106577. DOI: 10.1016/j.vph.2019.106577.
38. Berner K, **Strijdom H**, Essop MF, Webster I, Morris L, Louw Q. Fall history and associated factors among adults living with HIV-1 in the Cape Winelands, South Africa: an exploratory investigation. *Open Forum Infect. Dis*. October 2019; 6(10): ofz401. DOI: 10.1093/ofid/ofz401.
39. Everson F, Martens DS, Nawrot TS, Goswami N, Mthethwa M, Webster I, Mashele N, Charania S, Kamau F, De Boever P, **Strijdom H**. Personal exposure to NO<sub>2</sub> and benzene in the Cape Town region of South Africa is associated with shorter leukocyte telomere length in women. *Environ. Res*. 2020; 182:108993. DOI: 10.1016/j.envres.2019.108993.
40. Smit-van Schalkwyk M, Windvogel S, **Strijdom H**. Rooibos (*Aspalathus linearis*) protects against nicotine-induced vascular injury and oxidative stress in Wistar rats. *Cardiovasc J Africa*. 2020; 31(2): 81-90. DOI: 10.5830/CVJA-2019-052.
41. Fourie CMT, Botha-Le Roux S, Smith W, Schutte AE, Breet Y, Mels CMC, Gafane-Matemane L, Lammertyn L, Uys L, Burger A, Joseph JS, Goswami N, De Boever P, **Strijdom H**. Vascular function and cardiovascular risk in a HIV infected and HIV free cohort of African ancestry: Baseline Profile and Rationale of the Longitudinal EndoAfrica-NWU Study. *BMC Infect. Dis*. 2020; 20: 473. DOI: 10.1186/s12879-020-05173-6.
42. Hudson PAJ, Woudberg NJ, Kamau FM, **Strijdom H**, Frias MA, Lecour S. HIV-related Cardiovascular Disease: Any role for High-density Lipoproteins? *Am J Physiol Heart Circ Physiol*. 2020; 319(6): H1221 – H1226. DOI: 10.1152/ajpheart.00445.2020.
43. Marincowitz C, Webster I, Westcott C, Goswami N, De Boever P, Seidel G **Strijdom H**. Vascular health assessment with flow-mediated dilation and retinal image analysis: A pilot study in an adult population from Cape Town. *Cardiovasc J Africa*. 2020; 31: 1-8. **Accepted for publication September 2020**.
44. Nkeh-Chungag BN, Goswami N, Engwa GA, Sewani-Rusike CR, Mbombela V, Webster I, De Boever P, Kesler H, Stelzl E, **Strijdom H**. Relationship between Endothelial Function, Antiretroviral Treatment and Cardiovascular Risk Factors in HIV Patients of African Descent in South Africa: A Cross-Sectional Study. *J. Clin. Med*. 2021; 10(3): 392. DOI: 10.3390/jcm10030392.
45. Swart C, Fourie CMT, De Boever P, Goswami N, Lammertyn, **Strijdom H**, Kamau F, Botha-Le Roux S. Comparison of endothelial function and the cardiometabolic profile of people living with HIV in two South African regions: the EndoAfrica study. *Aids & Behavior*. **Submitted for publication September 2020**.
46. Berner K, Gouelle A, **Strijdom H**, Essop MF, Webster I, Louw Q. Biomechanical analysis of gait impairments | contributing to early functional decline in adults living with HIV-1 infection. *Frontiers in Medicine (Section Infectious Diseases: Surveillance, Prevention and Treatment)*. **Submitted for publication April 2020**.

## Peer-reviewed book chapters:

1. Lochner A, Marais E, Genade S, Huisamen B, Strijdom **H**, Moolman J. Ischaemic and pharmacological preconditioning is associated with attenuation of p38 MAPK activation during sustained ischaemia and reperfusion. In: Myocardial Ischemia and Preconditioning. Progress in Experimental Cardiology, vol 6 (Eds: Dhalla N.S., Takeda N., Singh M., Lukas A. Springer, Boston, MA); 2003: 249 – 273.
2. Genis A, Smit S, Westcott C, Mthethwa M, **Strijdom H**. Attenuation of eNOS-NO biosynthesis, up-regulation of antioxidant proteins and differential protein regulation in TNF-alpha-treated cardiac endothelial cells: Early signs of endothelial dysfunction. In: Endothelial Dysfunction: Risk Factors, Role in Cardiovascular Diseases and Therapeutic Approaches (Ed: Trent H. Keaton. Nova Scientific Publishers, Hauppauge, NY, USA); 2014: 169 – 204.

## Other:

*Invited commentary published on the official website of the International Atherosclerosis Society: **Strijdom H**, Genis A. When traditional and non-traditional cardiovascular risk factors target the vascular endothelium: A double blow to the burden of disease in South Africa. International Atherosclerosis Society May 2013; <http://www.athero.org/commentaries/comm1135.asp>*

## Peer-reviewed publications of conference paper abstracts:

1. **Strijdom JG**, Genade S, Hartley S, Lochner A. A harmful role for hypoxia-induced nitric oxide (NO) in cardiomyocytes. J Mol Cell Cardiol 2001; 33(6): A114.
2. Lochner A, Marais E, Genade S, Huisamen B, **Strijdom JG**, Moolman J.  $\beta$ -adrenergic receptor-induced protection of the ischaemic myocardium: a putative role for p38 MAPK. J Mol Cell Cardiol 2001; 33(6): A70.
3. **Strijdom H**, Muller C, Lochner A. Intracellular nitric oxide detection in adult cardiomyocytes: assessment with a fluorescent probe. J Mol Cell Cardiol 2004; 37(1): 196.
4. Van Rooyen J, Esterhuysen J, **Strijdom H**, Bester D, Du Toit EF. Dietary red palm oil affects nitric oxide production after hypoxia in the isolated rat cardiomyocyte. J Moll Cell Cardiol 2005; 38(6): 1078-1079.
5. Du Toit EF, Smith W, Muller C, **Strijdom H**, Woodiwiss AJ, Norton GR, Lochner A. Myocardial susceptibility to ischemic-reperfusion injury in a viscerally obese, pre-diabetic rodent model. Circ Res 2006; 99 (5): E26-E27.
6. Huisamen B, Pêrel S, Friedrich S, **Strijdom H**, Lochner A. The effect of inhibition of the ANGII receptor on insulin signalling and nitric oxide production in the insulin-resistant heart. Cardiovasc J Africa 2008; 19(5): S16.

7. **Strijdom H**, Friedrich SO, Hattingh S, Chamane N, Lochner A. Nitric oxide synthase (NOS) is regulated by the PI3-K / PKB pathway in hypoxic cardiac cells. *Cardiovasc J Africa* 2008; 19(5): S34.
8. Genis A, Mudau E, Lochner A, **Strijdom H**. A novel model of Endothelial Dysfunction (ED) in cultured cardiac microvascular endothelial cells (CMECs). *SA Heart* 2009; 6(4): 264.
9. Genis A, Mudau M, Lochner A, **Strijdom H**. Tumor necrosis factor (TNF)- $\alpha$  induces endothelial dysfunction (ED) in cultured cardiac microvascular endothelial cells (CMECs) by downregulation of the PKB/Akt-eNOS signaling pathway. *J Mol Cell Cardiol* 2010; 48 (5, S1): S94.
10. **Strijdom H**, Genis A, Mudau M, Westcott C, Lochner A. Effects of low-dose TNF- $\alpha$  administration on oxidative/nitrosative stress, the Akt/eNOS/NO pathway and viability in cardiac endothelial cells. *Atherosclerosis Supplements* 2011; 12(1): 68.
11. **Strijdom H**, Westcott C, Mudau M, Van Rensburg S, Genis A. Microvascular endothelial cell responses to inflammatory stimulation. *SA Heart* 2011; 8(4): 257.
12. Genis A, Westcott C, **Strijdom H**, Lochner A. Evidence of pro-survival responses in TNF- $\alpha$  stimulated microvascular endothelial cells. *Scientific Research and Essays* April 2012; 7: 45-46.
13. Westcott C, **Strijdom H**. Fenofibrate causes nitric oxide production from an unknown source. *Scientific Research and Essays* April 2012; 7: 48.
14. Nduhirabandi F, Huisamen B, **Strijdom H**, Lochner A. Acute melatonin treatment enhances insulin action in normal but not in insulin resistant isolated cardiomyocytes. *Scientific Research and Essays* April 2012; 7: 58.
15. Van Rensburg SH, Genis A, **Strijdom H**. Tumor necrosis factor (TNF)- $\alpha$ : towards a model of endothelial dysfunction. *Scientific Research and Essays* April 2012; 7: 40.
16. **Strijdom H**, Smit S, Westcott C, Mudau M, Genis A. Proteomic characterization of cardiac endothelial cell responses to TNF-alpha, hypoxia and asymmetric dimethylarginine (ADMA) stimulation. *SA Heart* 2012; 9(3): 194.
17. Chellan N, Muller CJF, Joubert E, **Strijdom H** and Louw J. Unfermented aqueous Honeybush extract (*Cyclopia maculata*) attenuates STZ-induced  $\beta$ -cell cytotoxicity. *Diabetologia* 2013; 56(1): S217-S218.
18. **Strijdom H**, Loubser D, Genis A, Westcott C, Mthethwa M, Smit S. Obesity and insulin-resistance are not associated with endothelial dysfunction in rat aortas. *Cardiovasc Res* 2014; 103 (S1): S129.

19. Huisamen B, **Strijdom H**, Collop N, Espach Y. A possible role for the ATM protein in the myocardial pathology associated with obesity and insulin resistance. *Cardiovasc Res* 2014; 103 (S1): S118.
20. Westcott C, Genis A, Mthethwa M, **Strijdom H**. Short term fenofibrate treatment increases nitric oxide production in cardiac endothelial cells through a nitric oxide synthase-independent mechanism. *Cardiovasc Res* 2014; 103 (S1): S33.
21. Huisamen B, Genis A, Marais E, **Strijdom H**. DPP-4 inhibition is cardioprotective and restores pancreatic function in obese, insulin resistant rats. *Cardiovasc Res* 2014; 103 (S1): S93.
22. Goswami, N, Stelzl E, Kessler HH, Nawrot T, De Boever P, Estambale B, Akoua-Koffi, C, **Strijdom, H** Vascular endothelial dysfunction: The putative interface of cardiovascular risk factors affecting populations living with and without HIV in Sub-Saharan Africa. *Clin Chem Lab Med* 2014; 52(6): eA9.
23. Huisamen B, **Strijdom H**, Collop N, Espach Y. A possible role for the ATM protein in the myocardial pathology associated with obesity and insulin resistance. *SA Heart* 2014; 11 (4): 183.
24. **Strijdom H**, Genis A, Mthethwa M, Loubser D, Westcott C. Ex vivo measurements of rat vascular reactivity: The role of obesity and perivascular adipose tissue (PVAT). *SA Heart* 2014; 11 (4): 203.
25. **Strijdom H**, De Boever P, Essop MF, Walzl G, Malherbe F, Westcott C, Webster I, Goswami N. Introducing the EndoAfrica study: Are HIV and ART associated with endothelial dysfunction. *SA Heart* 2014; 11 (4): 203.
26. Webster I, **Strijdom H**, Westcott C, Marincowitz C, Goswami N, De Boever P, Nawrot T. Use of flow mediated dilatation to assess endothelial function in a female cohort of mixed ancestry in Cape Town, South Africa. *Heart, Lung and Circulation* 2015; 24(3): S131.
27. Oyeyipo IP, **Strijdom H**, Skosana BT, Everson FP, Van der Horst G and Du Plessis SS (2015): Highly active antiretroviral therapy alters sperm parameter and testicular antioxidant status in lean and diet-induced obese male Wistar rats. *Physiological Society, Cardiff, UK, 2015. Proc Physiol Soc 35 2015; PC 086: 146.*
28. **Strijdom H**, De Boever P, Nawrot T, Walzl G, Webster I, Westcott C, Mashele N, Charania S, Stelzl E, Kessler HH, Goswami N. HIV and cardiovascular risk in a study population of mixed ancestry living in Cape Town, South Africa: preliminary data from the EndoAfrica study. 11<sup>th</sup> International Symposium on Molecular Diagnostics, Graz, Austria, May 2016. *Clin Chem Lab Med* 2016; 54(5): eA10. **(Invited Speaker)**
29. **Strijdom H**, Goswami N, De Boever P, Ugipinde T, Westcott C, Everson F, Genis A. Cardiometabolic and vascular effects of treatment with a fixed-dose combination antiretroviral drug containing nucleoside and non-nucleoside reverse transcriptase inhibitors (NRTIs and NNRTIs) in adult rats. 84<sup>th</sup> European Atherosclerosis Society Congress, Innsbruck, Austria, May 2016. *Atherosclerosis*. 2016; 252: e166.

30. Mashele N, Charania S, Essop F, Webster I, Westcott C, Goswami N, De Boever P, Nawrot T, **Strijdom H**. The effects of HIV-infection and ART treatment on endothelial function in a South African cohort. 84<sup>th</sup> European Atherosclerosis Society Congress, Innsbruck, Austria, May 2016. *Atherosclerosis*. 2016; 252: e162-e163.
31. **Strijdom H**, Charania S, Goswami N, De Boever P, Nawrot T, Mashele N, Webster I, Westcott C, Everson F, Mthethwa M, Essop F. Cardiovascular health and flow-mediated dilatation (FMD) in a South African cohort of HIV-infected participants: Findings from the EndoAfrica Study. 85<sup>th</sup> European Atherosclerosis Society Congress, Prague, Czech Republic, 23-26 April 2017. *Atherosclerosis*. 2017; 263: e141.
32. De Boever P, Everson F, Nawrot TS, Essop F, Kessler H, Mashele N, Stelzl E, Walzl G, Webster I, Westcott C, Goswami N, **Strijdom H**. Effects of HIV/AIDS and anti-retroviral treatment on retinal blood vessel diameters. The Association for Research in Vision and Ophthalmology Annual Meeting, Baltimore, Md., USA, 7-11 May 2017. *Investigative Ophthalmology & Visual Science*. 2017; 58 (8): 2035.
33. Webster I, Imperial E, Westcott C, Everson F, Mashele N, Mthethwa E, Goswami N, De Boever P, Nawrot T, **Strijdom H**. Effect of *Aspalathus Linearis* (Rooibos) Supplementation on the Heart and Aortas of Male Wistar Rats Exposed to Antiretroviral Therapy (ART) and the Effects of Rooibos Tea Consumption on the Cardiovascular Risk Profile of Patients on ART. Cardiovascular Society of Australia and New Zealand, Perth, Australia, 10-13 August 2017. *Heart Lung and Circulation*. 2017; 26 (2): S56.
34. **Strijdom H**, Webster I, Westcott C, Mashele N, Mthethwa M, Everson F, Goswami N, De Boever P, Nawrot T, Essop F. HIV-infection, but not high sensitivity CRP, is associated with markers of vascular function: Results from the Western Cape cohort of the EndoAfrica study. 18<sup>th</sup> Annual Congress of the SA Heart Society, Johannesburg, November 2017. *SA Heart*. 2017; 14(4): 250.
35. Mashele N, Webster I, Westcott C, Mthethwa M, Everson F, Goswami N, De Boever P, Nawrot T, **Strijdom H**. Anti-retroviral treatment is associated with increased cardiovascular risk in HIV-infected individuals from the Western Cape region. 18<sup>th</sup> Annual Congress of the SA Heart Society, Johannesburg, November 2017. *SA Heart*. 2017; 14(4): 240.
36. Mthethwa M, Westcott C, Mashele N, Webster I, Everson F, Goswami N, De Boever P, Nawrot T, **Strijdom H**. Endothelial biomarkers and endothelial function in a South African HIV population of mixed ancestry. 18<sup>th</sup> Annual Congress of the SA Heart Society, Johannesburg, November 2017. *SA Heart*. 2017; 14(4): 246.
37. Ndlovu Z, **Strijdom H**, Lochner A, Marais E. Cardioprotection in hearts from obese rats is mediated via an exchange protein directly activated by cyclic AMP (Epac) – ERK pathway. 18<sup>th</sup> Annual Congress of the SA Heart Society, Johannesburg, November 2017. *SA Heart*. 2017; 14(4): 247.
38. **Strijdom H**, Goswami N, De Boever P, Nawrot TS, Kessler HH, Stelzl E, Webster I, Everson F, Mashele N, Mthethwa M, Charania S, Espach Y, Kamau F, Essop MF. Vascular health in HIV: the role of cardiovascular risk factors, biomarkers of inflammation, HIV disease status and antiretroviral therapy (results from the EndoAfrica study, Cape Town, South Africa). 12<sup>th</sup> International Symposium on



Molecular Diagnostics, Graz, Austria, May/June 2018. Clin Chem Lab Med 2018; 56(6): eA106. **(Invited Speaker)**

39. Mellin, J; Goswami, N; **Strijdom, H**; Stelzl, E; Kessler, H; De Boever, P; Nawrot, T. HIV/AIDS and atherosclerotic cardiovascular disease: P11. 12<sup>th</sup> International Symposium on Molecular Diagnostics, Graz, Austria, May/June 2018. Clin Chem Lab Med 2018; 56(6).

40. Mthethwa M, Genis A, Westcott C, **Strijdom H**. Endothelial dysfunction in aortic and cardiac microvascular endothelial cells: The heterogeneous response to the pro-inflammatory cytokine, tumor necrosis factor-alpha (TNF- $\alpha$ ). 86<sup>th</sup> European Atherosclerosis Society Congress, Lisbon, Portugal, 5-8 May 2018. Atherosclerosis. 2018; 275: e125.

41. **Strijdom H**, Goswami N, De Boever P, Nawrot T, Essop F, Mthethwa M, Mashele N, Everson F, Charania S, Espach Y, Webster I. Determinants of endothelial function in a cohort of HIV-infected and HIV-free participants: The role of cardiovascular risk factors, biomarkers of inflammation and HIV-dependent parameters. 86<sup>th</sup> European Atherosclerosis Society Congress, Lisbon, Portugal, 5-8 May 2018. Atherosclerosis. 2018; 275: e127.

42. **Strijdom H**, Kamau F, Goswami N, De Boever P, Nawrot TS, Essop MF, Mashele N, Mthethwa M, Espach Y, Charania S, Everson F, Webster I. Abdominal obesity and antiretroviral therapy are associated with improved endothelium-dependent vascular function in HIV-infected individuals: Results from the EndoAfrica study. 19<sup>th</sup> Annual SA Heart Congress, Sun City, South Africa, 4-7 October 2018. SA Heart. 2018; 15(4): 308.

43. Everson F, Goswami N, De Boever P, Nawrot T, Essop MF, Mthethwa, Mashele N, Charania S, Espach Y, Webster I, **Strijdom H**. The effect of a fixed-dose combination ART regimen on retinal microvascular calibres in a South African HIV-infected study population. 19<sup>th</sup> Annual SA Heart Congress, Sun City, South Africa, 4-7 October 2018. SA Heart. 2018; 15(4): 277-278.

44. Charania S, Webster I, Mashele N, Mthethwa M, Kamau F, Espach Y, Everson F, Cyster H, Goswami N, De Boever P, Nawrot T, **Strijdom H**. Determinants of carotid intima-media thickness (CIMT) in a Western Cape study population with and without HIV infection. 19<sup>th</sup> Annual SA Heart Congress, Sun City, South Africa, 4-7 October 2018. SA Heart. 2018; 15(4): 276.

45. Frias M, Pagano S, Fetaud-Lapierre V, Lecour S, Kamau F, **Strijdom H**, Vuilleumier N. Anti-Apolipoprotein A1 Autoantibodies Prevalence Is Increased And Associated With HIV Infection. Atherosclerosis. 2019; 287: e251-e252. 87<sup>th</sup> European Atherosclerosis Society Congress, Maastricht, Netherlands, 26-29 May 2019.

46. **Strijdom H**, Kamau F, Goswami N, Essop F. Obesity and related cardiometabolic risk factors in HIV-infected individuals. Acta Physiologica. 2019; 227: 43-43. FEPS 2019: Joint Meeting of Federation of European Physiological Societies and the Italian Physiological Society, Bologna, Italy, 10-13 September 2019.

47. **Strijdom, H.**, Essop, M.S., Goswami, N., De Boever, P., Webster, I., Everson, F., Kamau, F.M., Charania, S., Nawrot, T.S. HIV-infected participants on combination ART (tenofovir, emtricitabine, efavirenz) have improved endothelial function and smaller

retinal venular calibers compared to treatment naive participants. *European Heart Journal* 2019; 40 (Supplement\_1): ehz746.0308. European Society of Cardiology Congress, Paris, France, 31 August – 4 September 2019.

48. Frias, M., Pagano, S., Fetaud-Lapierre, V., Lecour, S., Kamau, F., **Strijdom, H.**, Vuilleumier, N. The presence of anti-apolipoprotein A1 autoantibodies is associated with a pro-atherogenic profile in HIV-infected patients. *European Heart Journal* 2019; 40 (Supplement\_1): ehz746.0310. European Society of Cardiology Congress, Paris, France, 31 August – 4 September 2019.

49. **Strijdom, H.**, De Boever, P., Nawrot, T., Goswami, N., Webster I., Mthethwa, M., Mashele, N., Kamau, F., Martens, D., Charania, S., Everson, F. Personal air pollution exposure is associated with markers of cellular aging and cardiovascular risk: Findings from the EndoAfrica study. *SA Heart*. 2019; 16(3): 241. PASCAR, SA Heart and Africa PCR Congress, Johannesburg, 31 October – 3 November 2019.

50. Kamau, F., Frias, M., Lecour, S., Webster, I., Pagano, S., Vuilleumier, N., **Strijdom, H.** Antiretroviral therapy-naïve HIV-infected patients are predisposed to abdominal obesity and high-density lipoprotein/apolipoprotein A-1 impairment. *SA Heart*. 2019; 16(3): 209. PASCAR, SA Heart and Africa PCR Congress, Johannesburg, 31 October – 3 November 2019.

51. Frias, M., Berarpour, N., Pagano, S., Sidibe, J., Kamau, F., Lecour, S., **Strijdom, H.**, Thomas, A., Vuilleumier, N. Evaluation of antiretroviral therapy on metabolomics and atherogenic markers in HIV patients. *European Heart Journal*. 2020; 41(2): ehaa946.3307. European Society of Cardiology Congress, Digital, 29 August – 1 September 2020.

52. Frias, M.A., Berarpour, N., Pagano, P., Sidibé, J., Kamau, F., Lecour, S., **Strijdom, H.**, Thomas, A., Vuilleumier, N. Levels of anti-apolipoprotein A1 autoantibodies are associated with inflammatory response and metabolomic changes in HIV patients. *Atherosclerosis*. 2020; 315: e54. 88<sup>th</sup> European Atherosclerosis Society Congress, Virtual, 4 – 7 October 2020.

53. Kamau, F., Kgokane, B., Mthethwa, E., Mashele, N., Everson, F., Goswami, N., De Boever, P., Nawrot, N., Charania, S., Webster, I., **Strijdom, H.** HIV-infected adults are predisposed to proatherogenic biochemical changes. *Atherosclerosis*. 2020; 315: e120-e121. 88<sup>th</sup> European Atherosclerosis Society Congress, Virtual, 4 – 7 October 2020.