

**Paul Morris, previously CL Cardiology, Wellcome Trust Clinical Research Career Development Fellow 2018**

**Selected publications**

Mills MT, Grafton-Clarke C, Williams G, Gosling RC, Kyriacou AL, Morris PD, Gunn JP, Swoboda PP, Levelt E, Tsampasian V, van der Geest RJ, Swift AJ, Greenwood JP, Plein S, Vassiliou V, Garg P. Feasibility and validation of trans-valvular flow derived by four-dimensional flow cardiovascular magnetic resonance imaging in patients with atrial fibrillation. *Wellcome Open Res* 2021, 6:73  
(<https://doi.org/10.12688/wellcomeopenres.16655.1>)

Jones R, Varian F, Alabed S, Morris PD, Rothman A, Swift AJ, Lewis N, Kyriacou A, Wild JM, Al-Mohammad A, Zhong L, Dastidar A, Storey RF, Swoboda PP, Bax JJ, Garg P. Meta-analysis of echocardiographic quantification of left ventricular filling pressure. *ESC Heart Fail*. 2020 Nov 23. doi: 10.1002/ehf2.13119. Online ahead of print. PMID: 33230957

Morris PD, Gosling R, Zwierzak I, Evans H, Aubiniere-Robb L, Czechowicz K, Evans PC, Hose DR, Lawford PV, Narracott AJ, Gunn JP. A Novel Method for Measuring Absolute Coronary Blood Flow & Microvascular Resistance in Patients with Ischaemic Heart Disease. *Cardiovasc Res*. 2020 Jul 14;cva220. doi: 10.1093/cvr/cva220. Online ahead of print

Gosling RC, Sturdy J, Morris PD, Fossan FE, Hellevik LR, Lawford, PV, Hose DR, Gunn JP. Effect of side branch flow upon physiological indices in coronary artery disease. *J Biomech*. 2020 Feb 26:109698. doi: 10.1016/j.jbiomech.2020.109698. [Epub ahead of print] PMID: 32151377

Ferrari S1, Ambrogio S, Narracott, AJ, Walker A, Morris PD, Fenner, JW. An Encounter with Lattice Boltzmann for Biomedical Applications: interactive simulation to support clinical and design decisions. 2019. *Journal of Engineering and Science in Medical Diagnostics and Therapy*. In press 2020.

Morris PD, Gosling R, Rothman A, Iqbal J, Chiastra C, Colombo M, Migliavacca F, Banning A, Gunn JP. The Double-Kissing Nano-Crush As The Ultimate Refinement Of the Crush Technique For Bifurcation Lesions: Development, Bioengineering, Fluid Dynamics and Initial Clinical Testing. *Can J Cardiol*. 2019 Aug 30. pii: S0828-282X(19)31196-1. doi: 10.1016/j.cjca.2019.08.037. [Epub ahead of print] PMID: 32088059

Morris PD, Gosling RC, Lawford PV, Hose DR, Gunn JP. Personalised Fractional Flow Reserve: A Novel Concept to Optimize Myocardial Revascularization. *EuroIntervention*. 2019 Oct 20;15(8):707-713. doi: 10.4244/EIJ-D-18-00668. PMID: 30561366

Pandey A, Cleary DW, Laver JR, Gorringe A, Deasy AM, Dale AP, Morris PD, Didelot X, Maiden MCJ, Read RC. Microevolution of *Neisseria lactamica* during nasopharyngeal colonisation induced by controlled human infection. *Nat Commun*. 2018 Nov 12;9(1):4753. doi: 10.1038/s41467-018-07235-5. PMID: 30420631

Mandaltsi A, Grytsan A, Odudu A, Kądziała J, Witowski A, Morris PD, Ellam T, Kalra P, Marzo A. Non-invasive stenotic renal artery haemodynamics by in silico medicine. *Frontiers in Physiology*. 2018 Aug 17;9:1106. doi: 10.3389/fphys.2018.01106

Morris PD, Iqbal J, Chiastra C, Migliavacca F, Gunn JP. Simultaneous kissing stents to treat unprotected left main stem coronary artery bifurcation disease; stent expansion, vessel injury, haemodynamics, tissue healing, restenosis and repeat revascularisation. *Catheter Cardiovasc Interv*. 2018;92:E381–E392.. doi: 10.1002/ccd.27640. (PMID: 29693768)

Morris PD, Sciola MI, Gosling R, Lawford PV, Hose DR, Gunn JP. The Impact of Objective Mathematical Analysis During Fractional Flow Reserve Measurement. Results from the OMA-FFR Study. *EuroIntervention*, 2018. Feb 13. doi: 10.4244/EIJ-D-17-00826. [Epub ahead of print]. (PMID: 29437033)

Morris PD, Gosling R, Lawford PV, Hose DR, Gunn JP. Virtual coronary intervention (VCI): A treatment planning tool based upon the angiogram. *JACC Cardiovasc Imaging*. 2018 Mar 9. pii: S1936-878X(18)30130-X. doi: 10.1016/j.jcmg.2018.01.019. [Epub ahead of print]. (PMID: 29550308)

Morris PD, Silva Soto DA, Feher JFA, Rafiroiu D, Lungu A, Varma S, Lawford PV, Hose DR, Gunn JP. Fast Virtual Fractional Flow Reserve Based Upon Steady-State Computational Fluid Dynamics Analysis: Results From the VIRTU-Fast Study. *JACC Basic Transl Sci*. 2017 Aug 28;2(4):434-446. doi: 10.1016/j.jacbts.2017.04.003. eCollection 2017 Aug. (PMID: 28920099)