Dr Owen Miller’s publications

Peer-reviewed Manuscripts

Celermajer DS, Sørensen KE, Gooch VM, Spiegelhalter DJ, Miller OI, Sullivan ID, Lloyd JK, Deanfield JE
Non-invasive detection of endothelial dysfunction in children and adults at risk of atherosclerosis

Miller OI, James I, Elliott ME
Intraoperative use of inhaled low dose nitric oxide
Journal of Thoracic and Cardiovascular Surgery 1993;105:550-1

Miller OI, Gaynor JW, Macrae DJ, Tasker RC
Inhaled nitric oxide for pulmonary hypertension after repair of exomphalos
Archives of Diseases in Childhood, 1993; 69: 518-520

Miller OI, Macrae DJ
Inhaled Nitric Oxide: A selective pulmonary vasodilator after surgery for congenital heart disease
Anaesthesia and Intensive Care 1994, 22 (2);214

Miller OI, Celermajer DS, Deanfield JE, Macrae DJ
Guidelines for the safe administration of inhaled nitric oxide
Archives of Diseases in Childhood 1994; 70:F47-F49

Miller OI, Celermajer DS
Very Low Dose Inhaled Nitric Oxide is a Selective Pulmonary Vasodilator after Surgery for
Congenital Heart Disease
Australian and New Zealand Journal of Medicine 1994, 24(5):636

Miller OI, Celermajer DS, Deanfield JE, Macrae DJ
Very Low Dose Inhaled Nitric Oxide: A Selective Pulmonary Vasodilator after Operations for
Congenital Heart Disease

Miller OI, Macrae DJ
Newborn Emergency Transport: a modified incubator for long distance neonatal retrieval
British Journal of Intensive Care, 1994;4(7):226-229

Miller OI
Nitric oxide in Pulmonary Hypertension
Current Opinion in Anaesthesiology 1994;7:267-272

Miller OI, Tang SF, Keech A, Celermajer DS
Rebound Pulmonary Hypertension on Withdrawal from Inhaled Nitric Oxide
Lancet 1995;346:51-2

Goldman A, Tasker R, Howarth SG, Miller O, Macrae D
Three patterns of response to inhaled nitric oxide for persistent pulmonary hypertension of the
newborn
Intensive Care Medicine 1995;21:s27
Goldman AP, Delius R, Deanfield J, Miller OI, De Leval M, Sigston PE, Macrae DJ
Pharmacological Control of Pulmonary Blood Flow with Inhaled Nitric Oxide after the Fenestrated Fontan Procedure
Circulation 1996;94:II44-48

Tang SF, Miller OI
Inhaled nitric oxide during emergency neonatal transportation

Tang SF, Miller OI
Low-dose inhaled nitric oxide for neonates with pulmonary hypertension
Journal of Paediatrics and Child Health 1996;32:419-423

Tang SF, Symonds J, Miller OI
A Simple Method of Nitric Oxide Delivery and Analysis
Anaesthesia and Intensive Care 1996; 24:127-128

Miller OI, Symonds J
Equipment: Assessment, Purchase and Standards within the PICU

Tang SF, Sherwood M, Miller OI
Randomised trial of three doses of inhaled nitric oxide in acute respiratory distress syndrome
Archives of Diseases in Childhood 1998;79:415-418

Parsons S, Celermajer D, Savidis E, Miller O, Young I
The effect of inhaled nitric oxide on 6-minute walk distance in patients with pulmonary hypertension
Chest 1998;114:70S-72S

Miller OI, Tang SF
Inhaled nitric oxide in Paediatric practice
Paediatric and Perinatal Drug Therapy. 1999 (Year Book)

Residual pulmonary hypertension in children after treatment with inhaled nitric oxide: A follow up study regarding cardiopulmonary and neurological symptoms
Acta Paediatr 2000;89:1414-19

Miller OI, Tang SF, Keech A, Pigott NB, Beller E, Celermajer DS
Inhaled Nitric Oxide and the Prevention of Pulmonary Hypertension after Congenital Heart Surgery. A randomised placebo controlled trial
Lancet 2000;356:1464-69

Surgical substrates of postoperative junctional ectopic tachycardia in congenital heart defects

Impact of junctional ectopic tachycardia on postoperative morbidity following repair of congenital heart defects
Provenzano SC, Jones OD, Miller OI, Grant PW
Idiopathic pulmonary trunk aneurysm causing airway obstruction in an infant
Heart Lung Circ. 2007; 16 (6):454-6

Greil GF, Beerbaum P, Razavi R, Miller O
Imaging the right ventricle: non-invasive imaging

Vogel M, Sharland GK, McElhinney DB, Zidere V, Simpson JM, Miller OI, Allen LD
Prevalence of Increased Nuchal Translucency in Fetuses with Congenital Heart Disease and a Normal Karyotype
Cardiol Young. 2009 Sep;19(5):441-5. Epub 2009 Jul 29

Vici Syndrome: an additional case associated with sensorineural hearing loss and evidence of neuromuscular involvement on muscle biopsy

Ballard G, Tibby S, Miller I, Krasemann T, Rosenthal E, Anderson D, Austin C, Qureshi S, Simpson J
Growth of left heart structures following the hybrid procedure for borderline hypoplastic left heart
European Journal of Echocardiography 2010

Pushparajah K, Miller OI, Simpson JM
3D echocardiography of the atrial septum: anatomical features and landmarks for the echocardiographer
JACC Cardiovasc Imaging 2010 Sep;3(9):981-4

Jowett V, Miller O
Prenatal diagnosis of left ventricular aneurysm in association with interruption of the aortic arch
Cardiology in the Young (2011), 21, 113–115

Simpson JM, Miller OI
Three dimensional echocardiography in congenital heart disease
Arch Cardiovasc Dis 2011 Jan;104(1):45-56

Simpson J, Miller O, Bell A, Bellsham-Revell H, McGhie J, Meijboom F
Image orientation for three-dimensional echocardiography of congenital heart disease

Hussain T, Greil G, Bilska K, Miller OI
Towards Defining Pulmonary Sequestration in Infancy using two-dimensional echocardiography and novel high temporal resolution ‘keyhole’ 3D Magnetic Resonance Angiography

Valverde I, Miller OI, Beerbaum P, Greil G
Imaging of pulmonary vein stenosis using multidimensional Phase Contrast Magnetic Resonance Imaging (4D flow)"
J Am Coll Cardiol. 2011 Jul 5;58(2):e3

Pushparajah K, Miller OI, Rawlins D, Barlow A, Nugent K, Simpson JM
Clinical application of a micro multiplane transoesophageal probe in congenital heart disease.
Cardiol Young. 2012 Apr;22(2):170-7 Epub: Aug 19:1-8
Valverde I, Razishankar A, Miller O, Razavi R
HemiAzygous Vein Steal Hypoxic Syndrome after Hemi-Fontan operation: comprehensive four dimensional flow magnetic resonance visualisation
Cardiology in the Young 2012 Mar 23:1

Lancellotti P, Pierard LA, Voigt JU, Miller O, Niewman K, Rademakers FE, Badano LP
Eur Heart J Cardiovasc Imaging 2012 Feb 13(2): 127-31

Bellsham-Revell HR, Tibby SM, Bell AJ, Miller OI, Razavi R, Greil GF, Simpson JM
Tissue Doppler Intervals and derived indices in Hypoplastic Left Heart Syndrome
Eur Heart J Cardiovasc Imaging 2012 May; 13(5): 400-7 13(2): 127-31

Mertens L, Miller O, Fox K, Simpson J
Certification in Echocardiography of Congenital Heart Disease: experience of the first 6 years of a European Process
Eur Heart J Cardiovasc Imaging 2012 June 26

Bellsham-Revell HR, Simpson JM, Miller OI, Bell AJ
Subjective evaluation of right ventricular systolic function in hypoplastic left heart syndrome: how accurate is it?

Pusparajah K, Barlow A, Tran VH, Miller OI, Zidere V, Vaidyanathan B, Simpson JM
A Systematic Three-Dimensional Echocardiographic Approach to Assist Surgical Planning in Double Outlet Right Ventricle
Echocardiography. 2013 Feb;30(2):234-8

EuroEcho and other imaging modalities: highlights

Possible association between complex congenital heart defects and 11p15 hypomethylation in three patients with severe Silver-Russell syndrome

Miranda JO, Callaghan N, Miller O, Simpson J, Sharland G
Right aortic arch diagnosed antenatally: associations and outcome in 98 fetuses
Heart. 2014 Jan;100(1):54-9

Bell A, Rawlins D, Bellsham-Revell H, Miller O, Razavi R, Simpson J
Assessment of right ventricular volumes in hypoplastic left heart syndrome by real-time three-dimensional echocardiography: comparison with cardiac magnetic resonance imaging

EuroEcho-Imaging 2013: highlights

Francisco A, Greil G, Miller O, Austin C, Mathur S
Juxtaposed right atrial appendage in complex Transposition of the Great Arteries
Rev Port Cardiol. 2015 Jan;34(1):79-80
Vigneswaran TV, Callaghan N, Andrews RE, Miller O, Rosenthal E, Sharland GK, Simpson JM
Correlation of maternal flecainide concentrations and therapeutic effect in fetal supraventricular tachycardia
Heart Rhythm. 2014 Nov;11(11):2047-53

Indications for cardiovascular magnetic resonance in children with congenital and acquired heart disease: an expert consensus paper of the Imaging Working Group of the AEPC and the Cardiovascular Magnetic Resonance Section of the EACVI
Eur Heart J Cardiovasc Imaging. 2015 Mar;16(3):281-297

EuroEcho-Imaging 2014 Highlights
Eur Heart J Cardiovasc Imaging. 2015 Jul;16(7):703-11

Ho A, Gordon P, Rosenthal E, Simpson J, Miller O, Sharland G
Isolated Congenital Heart Block in the Fetus: Experience from a Single Unit over 32 years
Am J Cardiol. 2015 Jul 1;116(1):142-7

Bellsham-Revell H, Miller O, Anderson D, Bell A
Bilateral arterial ducts with isolated left subclavian artery in ventriculo-arterial discordance, ventricular septal defect, and coarctation
Eur Heart J Cardiovasc Imaging. 2015 Aug 13

Hunter LE, Chubb H, Miller O, Sharland G, Simpson JM
Fetal aortic valve stenosis: a critique of case selection criteria for fetal intervention
Prenat Diagn. 2015 Jul 29. doi: 10.1002/pd.466

International Fetal Cardiac Intervention Registry: A Worldwide Collaborative Description and Preliminary Outcomes

Hunter LE, Pushparajah K, Miller O, Anderson D, Simpson JM
Prenatal Diagnosis of left ventricular diverticulum and coarctation of the aorta
Ultrasound Obstet Gynecol 2016; 47: 236–238

EuroEcho-Imaging 2015: Highlights

Miranda JO, Hunter L, Tibby S, Sharland G, Miller O, Simpson J
Myocardial deformation in fetuses with coarctation of the aorta: a case-control study

Lloyd DF van Amerom JF, Pushparajah K, Simpson JM, Zidere V, Miller O, Sharland G, Allsop J,
An exploration of the potential utility of fetal cardiovascular MRI as an adjunct to fetal echocardiography

Three-dimensional Echocardiography in Congenital Heart Disease: An Expert Consensus Document from the European Association of Cardiovascular Imaging and the American Society of Echocardiography

Book chapters
A Textbook of Paediatric Emergency Medicine Chapter Editor
Cardiovascular Medicine – (2005)
Anomalies of the Left Ventricular Outflow Tract and Aortic Valve
Simpson JM, Miller OI in Echocardiography in Pediatric and Congenital Heart Disease: From Fetus to Adult, 2nd Edition
Transoesophageal and Epicardial Echocardiography
Miller O I, Bell AJ, Simpson JM in Echocardiography in Pediatric and Congenital Heart Disease: From Fetus to Adult, 2nd Edition
Congenital Heart Disease in Children
Congenital Heart Disease
Miller OI, Peacock K, Rice K in The EACVI Echo Handbook