

**Mark Walsh**

**MB, MRCPI, MRCPCH (Lon)**

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DOB: 19/02/1975

## **QUALIFICATIONS:**

<b>MB, BCh, BAO</b>	1999, National University of Ireland, Dublin
<b>MRCPI (Pediatrics)</b>	2003, Royal College of Physicians of Ireland
<b>MRCPCH (Lon)</b>	2004, Royal College of Pediatrics and Child Health, London
<b>ECFMG</b>	2004 USMLE Step 1 – 87 % USMLE Step 2 – 95 % USMLE Step 3 – 90 %

## **PRIZES:**

<b>The Hospital for Sick Children, Toronto Research Day Awards</b> Second prize overall “Left Ventricular Morphology effects Mortality following the Norwood Operation”	<b>May 2007</b>
<b>Len and Arleen Fries Scholarship Award</b> Travel award to present at the Irish and American Paediatrics Association meeting in Philadelphia	<b>Sept 2005</b>
<b>International Society for Perinatal Obstetricians</b> First prize for best paediatric presentation	<b>May 2005</b>
<b>Irish and Welsh joint paediatric meeting</b> First prize for best overall presentation	<b>May 2005</b>
<b>Gold medal 5 th year of medical school</b>	<b>July 1998</b>
<b>Scholarship for Royal College of Surgeons of Ireland</b>	<b>July 1993</b>
<b>Gold medal for academic achievement (Terenure College)</b>	<b>May 1993</b>

## **UNDERGRADUATE EXPERIENCE:**

July 01 - August 30 1998 M.S.O.R. (Medical Students Overseas Relief)  
Pareneatywa Hospital, Hare, Zimbabwe

Program providing overseas relief to third world countries.

## **POSTGRADUATE EXPERIENCE:**

<b>YEAR</b>	<b>POSITION</b>	<b>HOSPITAL</b>
<b>March 2012 to present</b>	<b>Consultant Congenital Cardiologist, Electrophysiology</b>	<b>Bristol Royal Hospital for Children, Bristol Heart Institute, The Spire Hospital, Bristol</b>
<b>July 2011 to March 2012</b>	<b>Interventional Fellowship</b>	<b>Stollery Children's Hospital, Edmonton, Canada</b>
<b>July 2010 to June 2011</b>	<b>Electrophysiology Fellowship</b>	<b>Cincinnati Children's Hospital, Ohio, USA</b>
<b>July 2008 to June 2010</b>	<b>Research Fellowship – Statistics and Clinical epidemiology</b>	<b>The Hospital for Sick Children, Toronto, Canada</b>
<b>July 2006 to June 2008</b>	<b>Cardiology Fellowship</b>	<b>Hospital for Sick Children, Ontario, Toronto, Canada</b>
<b>July 2005 to June 2006</b>	<b>Cardiac Intensive Care</b>	<b>Hospital for Sick Children, Ontario, Toronto, Canada</b>
<b>July 2002 to June 2005</b>	<b>Pediatric Resident</b>	<b>Our Lady's Hospital for Sick Children, Crumlin, Dublin, Ireland</b>
<b>July 2001 to June 2002</b>	<b>Intensive Care Resident</b>	<b>Charles Gardner Hospital Perth, Australia</b>
<b>July 2000 to June 2001</b>	<b>Medical Resident</b>	<b>Royal North Shore Hospital, Sydney, Australia</b>

<b>July 1999 to June 2000</b>	<b>Medical Resident</b>	<b>Manchester Royal Infirmary Manchester, England</b>
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## **Publications**

*"Compound Heterozygous Triadin Mutation Causing Cardiac Arrest in Two Siblings."*

**Walsh MA**, Stuart AG, Schlecht H, James AF, Hancox JC, Newbury-Ecob RA.  
**Pacing Clinical Electrophysiology, 2016 Jan 14**

*"Extraction of SelectSecure leads compared to conventional pacing leads in patients with congenital heart disease and congenital atrioventricular block."*

Shepherd E, Stuart G, Martin R, **Walsh MA**.  
**Heart Rhythm. 2015 Jun;12(6):1227-32**

*"Cumulative Radiation Exposure in Pediatric Patients with Congenital Heart Disease."*

**Walsh MA**, Noga M, Rutledge J.  
**Pediatric Cardiology 2014 Aug 15**

*"Implantation of the new Medtronic LINQ™ loop recorder in an infant with ventricular tachycardia."*

Hutchinson LJ, Stuart G, Walsh MA.  
**Cardiology Young. 2014 Oct 24:1-3**

*"Interrupted aortic arch with retrograde subclavian perfusion."*

[Kang SL](#), [Forsey J](#), **Walsh MA**  
**Acta Cardiology 2014 Jun;69(3):328-30**

*"Conduction Abnormalities in Pediatric Patients with Restrictive Cardiomyopathy"*

**Mark A. Walsh, MD.**, John L. Jefferies M.D., Jeff A. Towbin, M.D.,  
Richard J. Czosek, M.D.  
**Circulation / Heart Failure 2012 Mar 1; 5(2):267-73**

*"Successful Treatment of Pallid Breath-Holding Spells with Fluoxetine"*

**Mark Walsh, M.D.**, Timothy K. Knilans, M.D., Jeffrey B. Anderson, M.D.,  
Richard J. Czosek, M.D.  
**Pediatrics 2012 Sep; 130 (3)**

*“Airway Pressure Release Ventilation Improves Pulmonary Blood Flow in Infants following Cardiac Surgery”*

**Mark A. Walsh, MD, Michele Merat, Gustavo La Rott, Pretha Joshi, Vinay Joshi, MD, Tuyen Tran, Steve Jarvis, Christopher A. Caldarone, Glen S. Van Arsdell, Andrew Redington, and Brian Kavanagh.**

**Critical Care Medicine 2011 Dec;39(12):2599-604**

*“Ventricular “Oversensing” in a Biventricular Pacemaker”*

**†Mark A. Walsh, MD., †Jeffery B. Anderson, M.D., †Timothy K. Knilans, M.D., †Carol M. Cottrill, M.D., †Richard J. Czosek, M.D.**

**PACE 2012 Jan 13.**

*“Critical Care Outcomes in Pulmonary Atresia and Intact Ventricular Septum Undergoing Single Ventricle Palliation”*

**Walsh, Mark A, Asoh, Kentaro, Van Arsdell, Glen S, Humpl, Tilman**  
**Cardiol Young. 2010 Jun;20(3):290-6**

*“Percutaneous pulmonary valve implantation within bioprosthetic valves”*

**Kentaro Asoh, Mark Walsh, Edward Hickey, Mohamed Nagiub, Rajiv Chaturvedi, Kyong-Jin Lee, Lee Benson**

**Eur Heart J. 2010 Jun;31(11):1404-9**

*“Left Ventricular Morphology effects Mortality following the Norwood Operation”*

**M. A. Walsh; Christopher Caldarone; Anne Dipchand; Brian McCrindle; Glen S. Van Arsdell; S. Schwartz**

**Heart. 2009 Aug;95(15):1238-44. Epub 2009 May 19.**

*“Kaposiform hemangioendothelioma presenting antenatally with a pericardial effusion”.*

**Walsh MA, Carcao M, Pope E, Lee KJ.**

**Journal of Pediatric Hematology and Oncology - 2008 Oct; 30(10):761-3**

*“Anomalous left coronary artery: A critical problem in infancy”*

**M. A. Walsh;** D. M. Coleman; D. Duff; P. Oslizlok; K.P. Walsh; M. Redmond; AE. Woods

**Irish Journal of Medical Science – Irish Journal of Medical Science  
2008 Apr 8**

*“A Tbx5-dependent pathway regulating diastolic function in congenital heart disease”*

Yonghong Zhu, Anthony O. Gramolini, **Mark A. Walsh**, Yu-Qing Zhou, Cameron Slorach, Mark Freidberg, Jun K. Takeuchi, Hui Sun, R. Mark Henkelman, Peter H. Backx, Andrew N. Redington, David H. MacLennan, and Benoit G. Bruneau

**Proceedings of the National Academy of Sciences: 2008 Apr 8;105(14):5519-24.**

*“Surgical Repair of the Mitral Valve in Children with Dilated Cardiomyopathy and Mitral Regurgitation”*

**Mark Walsh**, Lee Benson, Anne Dipchand, Andrew Redington, Christopher A. Caldarone, Glen S. Van Arsdell, Paul Kantor

**Annals of Thoracic Surgery 2008 Jun;85(6):2085-8.**

*“Comprehensive Aristotle score significantly correlates with total cardiac output during the early postoperative period following the Norwood procedur”*

Jia Li MD PhD, Glen S. Van Arsdell MD, Gencheng Zhang MD PhD, Helen Holtby MD, **Mark Walsh MD**, Christopher A. Caldarone MD, Andrew N. Redington MD

**2008 Jul;136(1):123-8. 2008 May 7.**

*“Occlusion of a residual Sano shunt with the Amplatzer PDA device”*

**M. A. Walsh;** C. McMahon; K.P. Walsh

**Journal of Invasive Cardiology – 2008 Feb;20(2):E64-5**

*“Radiofrequency Perforation of the Right Ventricular Outflow Tract as a Palliative Procedure in Pulmonary atresia with Ventricular Septal Defect ”*

**M. A. Walsh;** R. Chaturvedi; Kyong Jin-Lee; Glen Van Arsdell; L. N. Benson

**Catheterization and Cardiovascular Interventions: 2007;69(7):1015**



*“Percutaneous Closure of Postoperative Ventricular Septal Defects with the Amplatzer Device”*

**M. A. Walsh;** D. M. Coleman; P. Oslizlok; K.P. Walsh

**Catheterization and Cardiovascular Interventions – 2006 Feb17;67(3):  
445 - 451**

*“Atrioventricular block following transcatheter closure of perimembranous septal defects”*

M. A. Walsh; J. Bialkowski; M. Szkutnik; M. Pawelec-Wojtalik; W. Bobkowski; K. P. Walsh

**Heart. 2006 : Sept 92 (9) 1295-97**

*“Screening for Patent Ductus Arteriosus in 24-30 week infants”*

M. A. Walsh; A. Twomey; W. Gorman; J. Murphy

**Irish Medical journal – 2006 - September 99 (8)**

## **Book Chapters**

*“Postoperative Pulmonary Hypertension”* M. A. Walsh, T. Humpl  
Book chapter for **The Right heart in Congenital Heart Disease 2<sup>nd</sup>**  
**Springer 2009.**

## **Abstract Publications**

*“Airway Pressure Release Ventilation Improves Pulmonary Blood Flow in Infants following Cardiac Surgery”*

**Mark A. Walsh, MD, Michele Merat, Gustavo La Rott, Pretha Joshi, Vinay Joshi, MD, Tuyen Tran, Steve Jarvis, Christopher A. Caldarone, Glen S. Van Arsdell, Andrew Redington, and Brian Kavanagh.**

**- Circulation 120 (18 Supplement); Nov 10, 2009**

*“Integrin Linked Kinase Promotes Post Ischemic Cardiac Regeneration”*

**Mark A. Walsh, MD, Alex Traister, PhD, Xiajing Dai, MD, Ming Lu, Momen A, MD, Zhu Y, A Greg Hannigan, PhD, and John G. Coles, MD.**

**- Circulation 120 (18 Supplement); Nov 10, 2009**

*“Radiofrequency Perforation of the Right Ventricular Outflow Tract as a Palliative Procedure in Pulmonary atresia with Ventricular Septal Defect”*

**M. A. Walsh; R. Chaturvedi; Kyong Jin-Lee; Glen Van Arsdell; L. N. Benson**  
**Catheterization and Cardiovascular Interventions – Vol: 70(1) July, 2007, P-2**

*“Percutaneous Closure of Postoperative Ventricular Septal Defects with Amplatzer Device”*

**M. A. Walsh; D. M. Coleman; P. Oslizlok; K.P. Walsh**  
**Catheterization and Cardiovascular Interventions – Vol: 66(1) Sept. 2005, P-99**

*“Screening for Patent Ductus Arteriosus in 24-30 week infants”*

**M. A. Walsh; D.M. Coleman; A. Twomey; W. Gorman; J. Murphy**  
**Journal of Maternal-Fetal and Neonatal Medicine – Vol: 18(3) Sept 2005, P-176 - 177**

*“Pilot study screening asymptomatic newborn infants with pulse oximetry for congenital heart disease”* D. Cox; **M. A. Walsh;** W. Gorman; J.

Murphy; A. Twomey  
**Journal of Maternal-Fetal and Neonatal Medicine - Vol: 18(3) Sept 2005, P-202 – 203**

*“Transcatheter Closure of Perimembranous Ventricular Septal Defects”*  
M. A. Walsh; D. M. Coleman; D. Duff; P. Oslizlok; K. P. Walsh  
**Archives of Disease in Childhood - Vol: 90(S2) April 2005, A-66**

## **Presentations**

*“Airway Pressure Release Ventilation Improves Pulmonary Blood Flow in Infants following Cardiac Surgery”*

**Mark A. Walsh, MD, Michele Merat, Gustavo La Rott, Pretha Joshi, Vinay Joshi, MD, Tuyen Tran, Steve Jarvis, Christopher A. Caldarone, Glen S. Van Arsdell, Andrew Redington, and Brian Kavanagh.**

**- American Heart Association, Oral Presentation Nov, 14, 2009**

*“Integrin Linked Kinase Promotes Post Ischemic Cardiac Regeneration”*

Mark A. Walsh, MD, Alex Traister, PhD, Xiajing Dai, MD, Ming Lu, Momen A, MD, Zhu Y, A Greg Hannigan, PhD, and John G. Coles, MD.

**- American Heart Association, Oral Presentation Nov, 15, 2009**

*“Radiofrequency Perforation of the Right Ventricular Outflow Tract as a Palliative Procedure in Pulmonary atresia with Ventricular Septal Defect”*

M. A. Walsh; R. Chaturvedi; Kyong Jin-Lee; Glen Van Arsdell; L. N. Benson

**2007, July 22-25, PEDIATRIC INTERVENTIONAL CARDIAC SYMPOSIUM.**

*“Left Ventricular Morphology and Function Predict Outcome after Norwood Palliation”*

Mark A Walsh, MD, Brian W McCrindle, MD, Anne Dipchand, MD, Cedric Manlhiot, BS, Edward Hickey, MRCS, Christopher A Caldarone, MD, Glen S Van Arsdell, MD, and Steven M Schwartz, MD

**6<sup>th</sup> Pediatric Academic Societies' Meeting. Toronto, May 2007**

**Dept. of Paediatric Research Day, University of Toronto, May 2007**

**2<sup>nd</sup> overall prize**

*“Percutaneous Closure of Postoperative Ventricular Septal Defects with Amplatzer VSD Occluders”* M. A. Walsh, D. M. Coleman, D. Duff, P. Oslizlok, K.P. Walsh, Department of Cardiology, Our Lady’s Hospital For Sick Children, Dublin, Ireland

**The Fourth World Congress of Pediatric Cardiology and Cardiac surgery;** September 18 – 22, 2005 Buenos Aires, Argentina

*“Transcatheter Closure of Perimembranous Ventricular Septal Defects, review our experience from October 2002 to June 2004”*

M. A. Walsh, D. M. Coleman, D. Duff, P. Oslizlok, K. P. Walsh, Department of Cardiology, Our Lady’s Hospital For Sick Children, Dublin, Ireland

**9th RCPCH Spring Meeting,** University of York, England: 18 - 21 April 2005

**British Pediatric Cardiac Association Meeting,** Dublin, Nov-2004

**Irish Pediatric Association,** Dublin, Nov-2004

*“Screening for Patent Ductus Arteriosus in 24-30 week infants”* M. A. Walsh, A. Twomey, W. Gorman, J. Murphy

**Joint Irish and Welsh Pediatric Association,** Wales, May 2005

**1<sup>st</sup> Prize**

**International Society of Perinatal Obstetricians,** Dublin, May 2005

**1<sup>st</sup> Prize**

*“Pilot study screening asymptomatic newborn infants with pulse oximetry for congenital heart disease”*

D. Cox, M. A. Walsh, W. Gorman, J. Murphy, A. Twomey

**International Society of Perinatal Obstetricians,** Dublin, May 2005

*“Anomalous left coronary artery arising from the Pulmonary artery”*

M. A. Walsh, D. Coleman, D. Duff, P. Oslizlok, K. Walsh, Mr. M. Redmond, Mr. F. Woods. Department of Cardiology, Our Lady’s Hospital for Sick Children, Dublin, Ireland

**Irish and American Pediatric Society,** Westport, Sept 2004

*“Cor Triatriatum – Another rare cardiac cause of acute respiratory problems”* M. A. Walsh, D. Coleman, D. Duff, P. Oslizlok, K. Walsh, Mr. M. Redmond, Mr. F. Woods. Department of Cardiology, Our Lady’s Hospital for Sick Children, Dublin, Ireland

**Irish and American Pediatrics Society**, Westport, Sept 2004

“Neonatal Outcome of Antenatal Hydronephrosis detected at the Routine 18-24 week Scan.”

M. A. Walsh, M. Moran, P. McParland, S. Carroll, W. Gorman, J. Murphy, A. Twomey. V. O’Donoghue

**Irish perinatal Association meeting**, Limerick, Nov 2003

**Irish Pediatric Association**, Dublin, Nov 2003

### **Interests outside medicine**

Tennis

Windsurfing

### **Career plans**

Electrophysiology academic position,

Maintain an active role in research

Continue to work in a Tertiary Referral Cardiology Center

