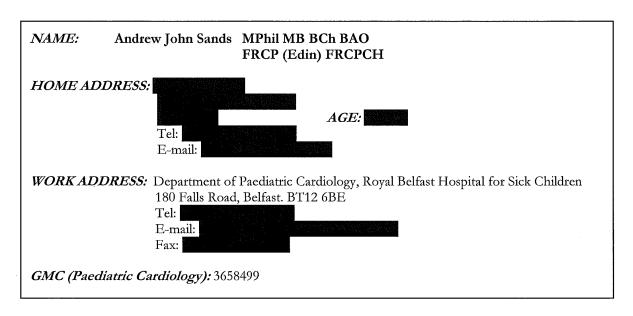
# **CURRICULUM VITAE**



## **EDUCATION**



The Queen's University, Belfast	1987-1992
The Oncen's University, Deliasi	1907-1992

Examinations: 2 <sup>nd</sup> MB:	Biochemistry	Pass with distinction
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Physiology Pass with distinction

Anatomy Pass

3<sup>rd</sup> MB: Pathology Pass with distinction Microbiology Pass

Therapeutics Pass

Final MB: Obst/Gynae/Child Health Pass with distinction

Medicine/Surgery Pass

## **UNDERGRADUATE PRIZES**

Hayley Clarke Memorial Prize in Haematology	1990
O'Connell Gold Medal (Mater Infirmorum Hospital)	1992
Mc Grath Scholarship in Surgery	1992
Mc Grath Scholarship in Obst. and Gynae.	1992
Mc Grath Scholarship in Medicine (runner-up)	1992
Paediatric Gold Medal (runner-up)	1992

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# **QUALIFICATIONS**

Bachelor of Medicine and Surgery	Jul. 1992
Membership of Royal College of Physicians	Jul. 1995
Master of Philosophy	Nov. 2000

# POSTGRADUATE COURSES/EDUCATION SUMMARY

Advanced cardiac life support course	Sep. 1992
Emergency paediatric life support course	Feb. 1994
Regional neonatal resuscitation course	Feb. 1995
Advanced paediatric life support course	Jun. 1996
Paediatric echocardiography seminar (Imperial College of	
Science, Technology and Medicine (I.C.))	Sep. 1996
Newcastle echocardiography course (foundation course)	Oct. 1997
"Calrad" radiation awareness course	Sep. 1998
Foundation course in cardiac morphology (I.C.)	Feb. 1999
Research methods course (Queen's University Belfast)	Jun. 1999
MRI in congenital heart disease (St. Thomas's)	May 2000
SpR course in cardiac pacing (St. Jude Medical)	Sep. 2000
Foundation course in fetal cardiology (Guy's)	Oct. 2000
Basic and advanced pacing courses (Medtronic Australia)	2001/2002
Teacher training for SpRs	Oct. 2002
Management training course	Dec. 2002/Feb. 2003
Recruitment and selection (Royal Group Hospitals)	Feb. 2003
Ethics in clinical practice (Ethox centre)	Mar. 2003
Pulmonary hypertension workshop (GOS)	Jan. 2004
Pulmonary hypertension study day (QUB)	Sep. 2004
Adult congenital HD annual meeting (RCS)	Sep. 2004
Management training (RGHT)	Feb. 2005
Apraisee workshop (RGHT)	Apr. 2005
Appraiser course	Dec 2005
Recruitment and selection (Royal Group Hospitals)	Mar. 2006
Adult congenital HD annual meeting (RCS)	Sep. 2006
Teach the teacher course for consultants	Nov. 2008
British congenital cardiac intervention group AGM	Jan. 2009
Appraiser update training	Jan. 2009
Recruitment and selection update	Apr. 2009
Medical appraisal update training	Sep. 2009
MPS mastering risk workshop	Sep. 2009
Pandemic flu training	Sep. 2009
Appraisers update	Oct. 2009
British paediatric arrhythmia group meeting	Feb. 2010
BHSCT fire safety training	May 2010
MPS Managing adverse outcomes workshop	Jun. 2010
Appraisal update	Sep. 2010
Adult congenital HD annual meeting (RCS)	Sep. 2010
BCCA AGM	Nov. 2010
BHSCT resuscitation update	Jan. 2011
Diroct leausement apart	Juin 2011

British congenital cardiac intervention group AGM	Jan. 2011
CCAD annual contributors meeting	Feb. 2011
Melody valve training	Mar. 2011
BCCA AGM	Nov. 2011
Child protection training	Nov. 2011
Recruitment and selection update	May 2012

#### MEMBERSHIP OF LEARNED SOCIETIES

**British Medical Association** 

Royal College of Physicians of Edinburgh

Royal College of Paediatrics and Child Health

**Ulster Paediatric Society** 

**British Congenital Cardiac Association** 

Irish Congenital Cardiac Association

Association for European Paediatric Cardiology

Irish Cardiac Society

# **EMPLOYMENT**

Consultant – Paediatric Cardiology – Royal Belfast Hospital for Sick Children
10th Sep 2003 – Current
(Including honorary contract in Birmingham Children's Hospital – Dec 2011 – applied for renewal)

Acting Consultant - Paediatric Cardiology - Royal Belfast Hospital for Sick Children

1st Jul 2003- 09th Sep 2003

Specialist Registrar – Paediatric Cardiology – Royal Belfast Hospital for Sick Children 1st Aug 2002- 30th Jun 2003

Fellow – Paediatric Cardiology – Royal Children's Hospital Melbourne
3<sup>rd</sup> Aug 2001-31<sup>st</sup> Jul 2002

Specialist Registrar - Paediatric Cardiology - Royal Belfast Hospital for Sick

Children 4th Aug 1998-31st July 2001

Research Fellow - Paediatric Cardiology - Royal Belfast Hospital for Sick

Children

6th Aug 1997-3rd Aug 1998

Registrar/Specialist Registrar - Paediatrics - Royal Belfast Hospital for Sick

Children

7th Aug 1996-5th Aug 1997

Locum Registrar - Paediatric Cardiology - Royal Belfast Hospital for Sick

Children

1st Apr 1996-6th Aug 1996

Senior House Officer - Paediatric A+E - Royal Belfast Hospital for Sick

Children

7th Feb 1996-31st Mar 1996

Senior House Officer - Neonatology - Royal Maternity Hospital

1st Nov 1995-6th Feb 1996

Senior House Officer – Paediatric Cardiology – Royal Belfast Hospital for Sick Children

 $2^{nd}$  Aug 1995- $31^{st}$  Oct 1995

Senior House Officer - Paediatrics and Neonatology - Craigavon Area Hospital

3rd Aug 1994-1st Aug 1995

Senior House Officer - Paediatrics - Royal Belfast Hospital for Sick Children

2nd Feb 1994-2nd Aug 1994

Senior House Officer - General Medicine - Mater Infirmorum Hospital

3rd Aug 1993-1st Feb 1994

Pre-Registration House Officer - Royal Victoria Hospital

5th Aug 1992-2nd Aug 1993

## SPECIALIST INTERESTS

My training programme comprised all the training elements set out in the UK guidelines and included a year as a fellow in the Royal Children's Hospital, Melbourne. I have developed subspecialty interests in fetal and interventional cardiology. I also retain an active practice in adult congenital heart disease and

arrhythmia management. With colleagues, I have helped develop and extend telemedicine facilities for use in daily clinical practice and as a research and training tool.

# **TEACHING**

Clinical teaching of undergraduates has formed a significant part of the workload in the posts listed. I have prepared and taught a university study module for undergraduates in neonatal cardiac physiology and provide a monthly teaching session in paediatric cardiology. I am also involved in preparing candidates for MRCP examinations. Teaching duties have also extended to seminars for specialist nursing degree courses and lectures to the annual conferences of the British Paediatric Cardiac Nurses Association and the N. Ireland Neonatal Nursing Association. In addition, I continue to participate in local educational meetings and symposia, plus regular hospital audit meetings. I have been cosupervisor for MD and MPhil students and am an Honorary lecturer with QUB. As part of one MD project I have helped design and execute a regional training programme in fetal cardiology for obstetric sonographers and obstetricians. I have examined for 3<sup>rd</sup>, 4<sup>th</sup> and final MB within the last two years.

## POSTRADUATE AWARDS/PRIZES

Colonel Davis Research Scholarship (RBHSC)

2001

#### PUBLICATIONS and PRESENTATIONS

#### ORIGINAL PAPERS

A Possible Role for Steroid Therapy in Preventing Postoperative Stenosis in Totally Anomalous Pulmonary Venous Connection. Sands AJ, Craig BG, Casey FA. Cardiology in the Young 1998;8:240-242

Transcatheter Occlusion of the Patent Ductus Arteriosus (PDA): A Comparative Study of Two Devices. El Mallah MK, Sands, AJ, Casey FA, Craig BG, Mulholland HC *Irish Journal of Medical Science* 2002;171(3)151-55

The High Incidence of Ventricular Septal Defect (VSD) In "Low Risk" New-borns: Associated Aetiological Factors. Sands AJ, Casey FA, Craig BG, Dornan JC, Rogers J, Mulholland HC. Archives of Disease in Childhood 1999;(1)F61-4

Multiple Intrapulmonary Arteriovenous Fistulas in Childhood Sands A, Dalzell E, Craig B, Shields M. *Pediatric Cardiology* 2000;21:493-496

Neonatal Echocardiographic Screening for Congenital Heart Disease: a Randomized Study. Andrew Sands, Brian Craig, Connor Mulholland, Christopher Patterson, James Dornan, Frank Casey. *Journal of Perinatal Medicine* 2002;30:307-312

Inaccurate electrocardiographic interpretation of long QT: the majority of physicians cannot recognize a long QT when they see one.

Viskin S, Rosovski U, Sands AJ, et al Heart Rhythm. 2005 Jun;2(6):575-7.

Assisting the transition from hospital to home for children with major congenital heart disease by telemedicine: a feasibility study and initial results. McCrossan B, Morgan G, Grant B, Sands A, Craig B, Casey F. *Med Inform Internet Med.* 2007 Dec;32(4):297-304.

Determinants of neuropsychological and behavioural outcomes in early childhood survivors of congenital heart disease

C G McCusker, N Doherty, B Molloy, F Casey, N Rooney, C Mulholland, A Sands, B Craig, and M Stewart Arch Dis Child 2007; 92: 137-141

Assessing ASDs prior to device closure using 3D echocardiography. Just pretty pictures or a useful clinical tool? GJ Morgan, F Casey, B Craig, A Sands. Eur J Echocardiogr, July 2008; 9: 478 - 482.

Diagnosis of congenital heart disease in neonates by videoconferencing: an eight-year experience. McCrossan BA, Grant B, Morgan GJ, Sands AJ, Craig B, Casey FA. *J Telemed Telecare*. 2008;14(3):137-40.

Home support for children with complex congenital heart disease using videoconferencing via broadband: initial results. McCrossan BA, Grant B, Morgan GJ, Sands AJ, Craig B, Casey FA. *J Telemed Telecare*. 2008;14(3):140-2.

Home videoconferencing for patients with severe congential heart disease following discharge. Morgan GJ, Craig B, Grant B, Sands A, Doherty N, Casey F. *Congenit Heart Dis.* 2008 Sep;3(5):317-24.

Major congenital heart disease: antenatal detection, patient characteristics and outcomes. McBrien A, Sands A, Craig B, Dornan J, Casey F. *J Matern Fetal Neonatal Med.* 2009 Feb;22(2):101-5.

Predictors of psychological functioning in mothers and fathers of infants born with severe congenital heart disease. Doherty N, McCusker C, Molloy B, Mulholland C, Rooney N, Craig B, Sands A, Stewart M, Casey F. *Journal of Reproductive and Infant Psychology*.2009;27(4);390-400

Factors predicting psychological distress in parents of infants born with severe congenital heart disease. Doherty N, Molloy B, Casey F, Mulholland C, Rooney N, Craig B, Sands A, Stewart M. *Journal of Reproductive and Infant Psychology.* 2009;27(4);390-400

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Coarctation of the aorta, clinical features and imaging findings including CT angiography. Gawley SD, Paterson A, Sands AJ. Eurorad Online Nov 4, 2009

Impact of a regional training programme in fetal echocardiography for sonographers on the antenatal detection of major congenital heart disease. McBrien, AH, Sands AJ, Casey FA, Dornan JC. *Ultrasound Obstet Gynecol.* 2010 Sep;36(3):279-84.

A controlled trial of early interventions to promote maternal adjustment and development in infants born with severe congenital heart disease.

McCusker CG, Doherty NN, Molloy B, Rooney N, Mulholland C, Sands A, Craig B, Stewart M, Casey F. *Child Care Health Dev.* 2010 Jan;36(1):110-7. Epub 2009 Nov 26.

Remote diagnosis of congenital heart disease: the impact of telemedicine. Grant B, Morgan GJ, McCrossan BA, Crealey GE, Sands AJ, Craig B, Casey FA. *Arch Dis Child.* 2010 Apr;95(4):276-80. Epub 2009 Nov 29.

Examination of the physical and psychosocial determinants of health behaviour in 4-5-year-old children with congenital cardiac disease. Casey FA, Stewart M, McCusker CG, Morrison ML, Molloy B, Doherty N, Craig BG, Sands AJ, Rooney N, Mulholland HC. *Cardiol Young.* 2010 Oct;20(5):532-7. Epub 2010 Jun 2

McCrossan BA, Sands AJ, Kileen T, Cardwell CR, Casey FA. Fetal diagnosis of congenital heart disease by telemedicine. *Arch Dis Child Fetal Neonatal Ed.* 2011 Nov;96(6):F394-7. Epub 2011 May 17. (Editor's choice)

# • CASE REPORTS

Two Cases of Miliary, Neonatal Haemangiomatosis. With Fulminant Heart Failure and Cardiac Septal Hypertrophy. O' Hagan A, Irvine A, Sands A, Mulholland C, Casey F, Bingham A. Accepted for publication *Pediatric Dermatology* 2004 Jul-Aug;21(4):469-72.

Giant Left Atrial Aneurysm in a 15-Month-old Child. Andrew Sands, Andrew Cochrane, Brian Edis. *Circulation* 2003;108:2722-3

A large, single pulmonary arteriovenous fistula presenting hours after birth. McBrien AH, Sands AJ, Gladstone DJ. Images Paediatr Cardiol 2006;28:1-6

**Down syndrome, achondroplasia and tetralogy of Fallot: a case report.** T Dabir, B McCrossan, A Sands. *Journal of Medical Genetics*; Sep 2007 Supplement 1, Vol. 44, pS60

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Uncorrected tetralogy of Fallot: Adult presentation in the 61st year of life. SL Fairley, AJ Sands, CM Wilson. *Int J Cardiol.*2008 Aug 1;128(1):e9-e11. Epub 2007 Aug 8

Common arterial trunk with thanatophoric dysplasia: a unique case. McBrien A, Sands A, Paterson A, Tharmaratnam S, Thornton C. Fetal Pediatr Pathol. 2008;27(6):259-63

#### • ORAL PRESENTATIONS/PUBLISHED ABSTRACTS

The Use of Steroids in Preventing Postoperative Stenosis in TAPVD.

Presented at Ulster Paediatric Society Junior Members Forum. Dec. 1995.

Occlusion of the Persistent Arterial Duct Using the Rashkind Double Umbrella: a Medium Term Perspective. Sands AJ, Casey FA, Craig BG, Mulholland HC. Presented at JMF (Ulster Paediatric Society). Dec. 1997.

Oral presentation at European Society for Pediatric Research Conference (Sep. 1998). Abstract published *Pediatric Research* Sep. 1998;44(3) 422

Transcatheter Occlusion of the Patent Ductus Arteriosus (PDA): A Comparative Study of Two Widely Used Devices. El Mallah MK, Sands, AJ, Casey FA, Craig BG, Mulholland HC. Oral presentation (by first author) at Paediatric Research Society Conference March 2001

Ventricular Septal Defect; A Frequent Finding in a "Normal" New-born Population. Sands AJ, Casey FA, Craig BG, Dornan JC, Rogers J, Mulholland HC. Oral presentation at European Society for Pediatric Research Conference (Sep. 1998). Abstract published *Journal of Pediatric Research* Sep. 1998; 44 (3) 422

# Ventricular Septal Defects (VSDs): The Relationship of Social Class and Area of Residence to Occurrence Rate.

Sands AJ, Casey FA, Craig BG, Dornan JC, Rogers J, Lynch C, Mulholland HC. Oral presentation at annual congress of Fetal Cardiology/The Fetus as Patient (May 1998). Abstract published *Fetal Diagnosis and Therapy* Feb 1998;13(suppl. 1)148

Poster presentation at annual meeting of Irish Cardiac Society (Sep. 1999). Abstract published *Irish Journal of Medical Science* 1999;169(2)Suppl.1:39

Neonatal Echocardiographic Screening for Congenital Heart Disease in Low Risk, New-born Infants. Sands AJ, Casey FA, Craig BG, Dornan JC, Rogers J, Lynch C, Mulholland HC. Presented and first prizewinner "best scientific content" Ulster Paediatric Society Junior Members Forum Dec. 1998

Poster presentation at annual meeting of the Association of European Paediatric Cardiologists (Sep. 1999). Abstract published *Cardiology in the Young* .1999(9)Suppl. 2:19

Oral presentation at annual meeting of Irish Cardiac Society (Sep. 1999). Abstract published *Irish Journal of Medical Science* 1999;169(2)Suppl.1:24

# Screening for Congenital Heart Disease (CHD) In Low-risk Newborns

Sands A., Mulholland C., Casey F., Craig B., Dornan J., Rogers J., Patterson C., Oral presentation at joint meeting of Irish Paediatric Association and Ulster Paediatric Society 5<sup>th</sup> May, 2000

CR - Dr Sands 311-001-008

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Oral presentation at annual meeting of Irish Cardiac Society (22<sup>nd</sup> Sep. 2000). Abstract published *Irish Journal of Medical Science* 

Oral presentation at annual meeting of European Society for Pediatric Research (27th Sep. 2000). Abstract published in *Paediatric Research* 2001;49(2):284

Oral presentation at annual meeting of Irish and American Paediatric Society (30th Sep. 2000)

Oral presentation at annual meeting of the British Paediatric Cardiac Association (23rd Nov. 2000)

Poster presentation at Paediatric Cardiology and Paediatric Cardiac Surgery World Congress (15th May 2001

# A Psychological and Physical Intervention Programme for Families of Children with Congenital Heart Disease

McCusker C, Rooney N, Casey F, Sands A, Craig B, Stewart M, Mulholland C. Oral presentation at meeting of working group on Psychosocial Problems in Congenital Heart Disease. Presented by first author March 2004 (Vienna)

# Congenital Muscular Ventricular Septal Defect (VSD): From Auscultation to Echocardiography and Back

Andrew Sands, James Zuberbuhler, Richard Reeve Oral presentation at Irish and American Paediatric Society annual meeting Sep 2004

The CHIP Project (1) – an early psychoeducational initiative for infants born with significant congenital heart disease and their parents. McCusker C, Doherty N, Rooney N, Sands A et al. Presented by first author at Biannual Meeting of the AEPC Working Group Psychosocial Care in CHD March 2006

Predictors of parental mental health in infants born with severe congenital heart defects. Implications for interventions. McCusker C, Doherty N, Rooney N, Sands A et al. Presented by second author at Biannual Meeting of the AEPC Working Group Psychosocial Care in CHD March 2006

A new way of assessing exercise capability in young children with congenital heart disease. McCrossan B, Sands A, Casey F, Craig B, Mulholland C. Presented by first author at Biannual Meeting of the AEPC Working Group Psychosocial Care in CHD March 2006

ECG Analysis In Newborn Infants. A Verner, A Sands, S Craig. Oral presentation by first author at Irish Perinatal Society AGM May 2006 and published Irish Journal of Medical Science Proceedings of the Irish Paediatric Association meeting, May 2006;175(2) es4:1-60

How good is antenatal screening for congenital heart disease? Experience of a regional centre. A McBrien, F Casey, A Sands, B Craig. Oral presentation by first author at **AGM** of Irish Cardiac Society and published *Irish Journal of Medical Science* 2006;175(4):Suppl 1:35

Current standards of screening low-risk pregnancies for major congenital heart disease in Northern. A McBrien, F Casey, A Sands, B Craig. Oral presentation by first author at Annual Irish Perinatal Meeting April 2007 and published *Irish Journal of Medical Science* 

Accuracy of remote diagnosis of congenital heart disease by telemedicine.

B McCrossan, G. Morgan, F Casey, A Sands, B Craig. Oral presentation by first author at Annual Irish Perinatal Meeting April 2007 and published *Irish Journal of Medical Science* 

ECG analysis in preterm infants. A Verner, A Sands, S Craig
Oral presentation by first author at RCPCH annual meeting (York). April 2007 and published *Archives of Disease in Childhood* 2007;(Suppl.1)A53

Telemedicine as discharge support for families of children with major congenital heart disease. McCrossan B., Morgan G., Grant B., Sands A., Craig B. & Casey F. Oral presentation at Annual Meeting of AEPC. May 2007. Abstract published *Cardiology in the Young.* 2007;17(S1)23.

Fetal Diagnosis of Congenital Heart Disease by Telemedicine. McCrossan BA, Sands A.J. & Casey F.A. Oral presentation at Annual Meeting of AEPC. May 2008. Published *Cardiology in the Young*. 2008;18(S1)23.

Telemedicine home support program for infants with major congenital heart disease: a randomised control trial. McCrossan B, Morgan G, Grant, B, Sands A, Craig B and Casey F. Oral presentation at World Congress PC and PCS. June 2009. Published *Cardiology in the Young*.

Remote monitoring of children with congenital heart disease. McCrossan B, Morgan G, Grant, B, Sands A, Craig B and Casey F. Oral presentation at European Society of Cardiology. Sep.2009

A randomized control trial of a telemedicine home support programme for infants with major congenital heart disease. McCrossan B, Morgan G, Grant B, Sands A, Craig B, Crealey G, Murray A, Casey F. Oral presentation at Irish Cardiac Society. Oct. 2009 and published *Irish Journal of Medical Science* 

# • POSTER PRESENTATIONS/PUBLISHED ABSTRACTS

Transcatheter Occlusion of the Patent Ductus Arteriosus (PDA): A Comparative Study of Two Widely Used Devices. El Mallah MK, Sands, AJ, Casey FA, Craig BG, Mulholland HC. Poster presentation at Paediatric Cardiology and Paediatric Cardiac Surgery World Congress May 2001

Ventricular Septal Defects; A Remarkably Frequent Finding in a "Normal" New-born Population. Sands AJ, Casey FA, Craig BG, Dornan JC, Rogers J, Mulholland HC. Poster presentation at Annual Meeting of the Association of European Paediatric Cardiologists (June 1998). Abstract published *Cardiology in the Young* 1998(9)Suppl.1:29

A Survey of Radiation Dose in Pediatric Interventional Cardiology

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Sonyia Mc Fadden, Ciara Hughes, Patrick Brennan, Allison McGee, Louise Rainford, Catherine Dhelft, Andrew Sands, John Winder. Poster presentation at Radiological Society of North America, Annual Meeting June 2004.

Evaluation of remote stethoscopy for the assessment of heart murmurs of children. B. Grant, B.G Craig, A.J Sands, H.C Mulholland, M.D Shields, F.A Casey Poster presentation at the AEPC 39th annual meeting, Munich 2004

Improving Outcomes for High Risk Infants with Congenital Complete Heart Block. Sands A, Grant B, Casey F, Craig B, Mulholland C, Wilson C, Gladstone D. Oral presentation at AGM of Ulster Paediatric Society (3<sup>rd</sup> May 2003).

Poster presentation at AGM of Irish Cardiac Society and published *Irish Journal of Medical Science* 2006;175(4):Suppl 1:42

Supporting Families of Children with Major Congenital Heart Defects with Videoconferencing. Brian McCrossan, Gareth Morgan, Brian Grant, Andrew Sands, Brian Craig, Frank Casey. Poster presentation at the European Academy of Paediatrics Congress - Europaediatrics, Barcelona, October 2006 and published *Journal of European Pediatrics*.

Missed Diagnoses in Antenatal Screening for Congenital Heart Disease: Implications for Training. A McBrien, F. Casey, A. Sands, B. Craig. Poster presentation at Annual Meeting of AEPC. May 2007. Abstract published *Cardiology in the Young* 

Hyponatraemia in Infants with Congenital Heart Disease. McCrossan BA, Sands AJ. Poster presentation at British Congenital Cardiac Association Annual Meeting 2007.

The Role of Telemedicine in the Remote Diagnosis of Congenital Heart Disease. McCrossan B., Grant B., Morgan G., Sands A., Craig B., Casey F. Poster presentation at Annual Meeting of AEPC. May 2007. Abstract published *Cardiology in the Young* 2007;17(S1)68.

Impact of Regional Fetal Echocardiography Training. McBrien A, Sands A, Craig B, Casey F. Abstract published *Archives of Disease in Childhood Fetal Neonatal Ed* 2008;93(S1):Fa42.

Redefining High Risk Referral Criteria in Fetal Cardiology. McBrien A, Sands A, Craig B, Casey F. Poster presentation at Annual meeting of AEPC May 2008. Abstract published *Cardiology in the Young* 2008;18(S1):71.

A Fetal Cardiology Telemedicine Program: Acceptability, Social Factors and Impact on Maternal Anxiety. McCrossan BA, Sands A.J. & Casey F.A. Poster presentation at Annual meeting of AEPC May 2008. Abstract published *Cardiology in the Young.* 2008;18(S1).

The value of telemedicine in the remote diagnosis of congenital heart disease. McCrossan B, Grant B, Morgan G, Crealey G, Sands A, Craig B, Casey, F. Poster presentation at World Congress PC and PCS. June 2009. Published *Cardiology in the Young*.

Fetal Diagnosis of Congenital Heart Disease by Telemedicine
McCrossan B, Sands and Casey F. Poster presentation at World Congress PC and PCS. June 2009.
Published Cardiology in the Young.

Activity and Health Behaviour of Children after surgery for Congenital Heart Disease Casey F, McCusker C, Molloy B, Doherty N, Craig B, Sands A, Rooney N and Stewart M. Poster presentation at World Congress PC and PCS. June 2009. Published *Cardiology in the Young*.

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Comparison of antenatally versus postnatally diagnosed major congenital heart disease McBrien A, Sands A, Craig B and Casey F. Poster presentation at World Congress PC and PCS. June 2009. Published *Cardiology in the Young*.

Effect of a regional training programme in fetal echocardiography on antenatal detection of major congenital heart disease McBrien A, Sands A, Craig B and Casey F. Poster presentation at World Congress PC and PCS. June 2009. Published *Cardiology in the Young.* 

A twenty Year Experience of Arterial Switch Repair by Direct Anastomosis Retaining a Normal Position of the Pulmonary Bifurcation. Ahmed A.(1), Hong Lee L.(1), Sands A.(2), Casey F.(2), Craig B.(2) and Gladstone D.(1). Poster presentation at AEPC 2011.

#### **CURRENT RESEARCH**

#### 1. Co -supervisor for MD project through Queen's University Belfast

Relating to exercise levels in older children with CHD. Completed and further publications in preparation.

## 2. Dynamic QT Interval Measurement in Normal Children

Prospective study initiated in Melbourne and continued as neonatal MPhil thesis in RJMH. Completed and further publications in preparation.

#### 3. The Impact of a Diagnosis of Congenital Heart Disease.

Team researcher and co-authored grant proposal attracting £300, 000 funding over 4 years (1999 – 2003). Publications above and further work underway.

# PAPERS/CASE REPORTS IN PREPARATION

McCrossan BA, Sands AJ, Kileen T, Doherty NN, Casey FA. A Fetal Tele-Cardiology Service: Patient Preference and Socio-Economic factors.

Accepted by Prenatal Diagnosis 27/05/2012

McCrossan BA, Morgan G, Grant B, Sands A, Craig, B, Doherty NN & Casey F. A Randomised Control Trial of a Remote Home Support Programme for Children with Major Congenital HeartDisease.

Submitted to *Heart* and returned for revisions which are pending

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McCrossan BA, Morgan G, Grant B, Sands A, Craig, B, Doherty NN & Casey F. A Comparrison of ISDN and ADSL Transmission in Delivering a Home Support Programme for Infants with Major Congenital Heart Disease."

McCrossan B.A., Doherty N.N., Sands, A.J., Grant, B, Craig B.G. and Casey F.A. A survey of paediatricians' opinions on a regional paediatric telecardiology service.

#### **REVIEWS/INVITED PRESENTATIONS**

Congenital heart disease: does screening matter? Reviewed for Archives of Disease in Childhood. Dec. 2000

Paediatric Cardiology (2<sup>nd</sup> edition). Anderson et al. Heart, Lung and Circulation 2002; 11: 193-4)

**The Management of Coarctation.** Sands A. Presentation by invitation at AGM of Irish Cardiac Society 2006.

Epidemiology of Congenital Heart Disease in northern England; A 19-year Register-based Study. Reviewed for *Heart*. Sep. 2007

Balloon de-banding the pulmonary artery: In vitro studies and early clinical experience. Reviewed for Congenital Heart Disease. Jul. 2008

Online teaching module for the University of Ulster on fetal echocardiography. June 2008. Co – authored with Dr. A McBrien and Dr. F Casey

Editorial on Fetal Cardiology. McBrien A, Sands A, Casey F. Cardiology News 2008;11(5):6-9.

Paediatric Cardiology from fetal life to adulthood. Invited review for Ulster Medical Journal (in preparation)

# **AUDIT**

Audit of cardiac management of Duchenne Muscular Dystrophy in Northern Ireland (ongoing)

Audit of warfarin prescribing in children with congenital heart disease in Northern Ireland Presentation at paediatric audit RBHSC Mar 2012 and ongoing

Audit and Analysis of Paediatric Mortality following Cardiac Surgery - Sep 2010- ongoing

Assessment of radiation dose in pediatric interventional cardiology (2004 – and now the basis of a research project)

Local liaison paediatric cardiologist for congenital central cardiac audit database (CCAD)

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Central returns to NICOR with WWW publication. Also participation in data validation by regular visits to other UK centres.

Developed new Paediatric Medicines Kardex for use across the BHSC Trust – Sep 2010-(ongoing revisions)

Audit of parental satisfaction with outpatient visits within RBHSC/RVH adult congenital cardiac clinic

Management of delivery in fetuses with antenatal diagnosis of CHD

#### Multi-professional Care Pathways

First locally appointed team-leader assigned to establish care pathways for the Royal Belfast Hospital for Sick Children. Several seminars attended in respect of care pathways and presentations at Hospital and Trust level. Pathways disseminated to several U.K and one German centre.

# **POSITIONS HELD**

Clinical lead for medical paediatrics, Belfast Trust	Current
UK network for pulmonary hypertension in children	Current
Honorary lecturer, Queen's University Belfast	Current
Regional Medical Cardiology Committee Co-chair	Current
Paediatric and cardiology consultant appraiser	Current
Drugs and therapeutics committee chair RBHSC	Current
BHSCT drugs and therapeutics committee	Current
N.I CEMACH panel member (RCPCH) reviewing paediatric mortality	2008-09
Chair of the appointments committee for regional second term	
SHOs in paediatrics	2004-06
Chairman of Northern Ireland Paediatricians in Training (NIPIT)	2000-02
Craigavon Area Hospital Resuscitation Committee.	1994-95
Ulster Country Under 19 Cricket Team.	1986-87
Chief Scout Challenge Award.	1985

# **INTERESTS**

Christian Medical Fellowship Cricket Philately Horticulture UK Clinical Ethics Network Information Technology

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