

# CURRICULUM VITAE

**Meredith L.K. Sheil, MBBS FRACP PhD**

## **Degrees and Professional Qualifications:**

MBBS, Sydney University 1987.  
FRACP, 1994.  
PhD Sydney University 2006

## **Awards and Appointments**

Honorary Clinical Lecturer University of NSW 1991  
BA Grace Clinical Fellowship Royal Alexandra Hospital for Children 1992-4  
Clinical Research Fellow University of Virginia Health Sciences Centre 1995  
Kincaid Smith Fellowship Royal Australasian College of Physicians 1996  
Senior Research Fellow Adolph Basser Cardiac Institute, The Children's Hospital at Westmead 1996 - 2005  
National Heart Foundation Post Graduate Research Fellowship 1999-2001  
Lecturer University of Sydney 2003-5  
Finalist Ralph Reader Young Investigator of the Year Award – Clinical division, Cardiac Society of Australia and New Zealand 2004.  
Honorary Associate University of Sydney Veterinary School 2007

## **Present Appointment**

Technical Director  
Animal Ethics Pty Ltd

## **Workplace Address:**

22 Avenue Rd  
Hunter's Hill 2110  
Tel. (02) 9879-6923  
Fax (02) 9879-6922  
E-mail. baysheil@bigpond.net.au.

## **Address for Correspondence:**

22 Avenue Rd  
Hunter's Hill, NSW 2110.  
Tel. (02) 9879-6923  
Fax (02) 9879-6922  
E-mail. baysheil@bigpond.net.au

## **PROFESSIONAL EXPERIENCE:**

### **GENERAL MEDICINE AND PAEDIATRICS**

- Registered medical practitioner in NSW.
- Fellow of the Royal Australasian College of Physicians
- Qualified specialist paediatric cardiologist
- 15 years experience managing traumatic and / or surgical wound care in children including intensive care and pain management in children following cardiac surgery in the Adolph Basser Cardiac Institute at The Royal Alexandra Hospital for Children.
- Comprehensive training beyond this at The University of Virginia Health Sciences Centre and at The Children's Hospital Westmead. With extensive experience in the field of transoesophageal echocardiography, contrast echocardiography and myocardial perfusion assessment.
- Extensive clinical experience in the management of the full range of paediatric heart disease, through basic and advanced training at 2 major centres, and through extended involvement with the intra-operative assessment and surgical management of children with a broad range of congenital heart defects.
- Advanced skills in non-invasive imaging as demonstrated by the development, and provision of an intraoperative transoesophageal echocardiography service at 2 major centres.

### **MEDICAL RESEARCH**

- 10 years experience in research in paediatric heart disease.
- Senior Research Fellow Adolph Basser Cardiac Institute, The Children's Hospital at Westmead 1997-2005.
- Kincaid Smith Research Fellowship (RACP) 1997,
- National Heart Foundation Post Graduate Research Fellowship (1999-2003)
- Children Hospital Fund grant (1999-2003).
- PhD Sydney University 2006
- Research experience involves both clinical, animal and laboratory research studies, including anaesthetic management and intraoperative studies on animals undergoing cardiac surgery and cardiopulmonary bypass procedures (dogs co-investigator USA 1996) and piglets (principal investigator CHW 2002-2003).

### **RURAL / VETERINARY RESEACH**

- 1997-2007 – (Current) Director Baysheil Pty Ltd  
Owner / manager of "Yerilla", Ilford NSW - Superfine and crossbred merino grazing enterprise. 10 years experience in primary production.
- 2005 –2007 – (Current) Technical Director Animal Ethics Pty Ltd.  
Invented, developed and commercialised "Tri-Solfen" - the first topical anaesthetic and wound care spray for pain alleviation in lambs undergoing mulesing.
- 2007 Honorary Associate Sydney University Veterinary School  
2 years experience in collaborative research with University of Sydney Veterinary school investigating the development of pain relief for production animal husbandry.

### **PUBLICATIONS**

1. Lomax S, Sheil M, Windsor PA. Impact of topical anaesthesia on pain alleviation and wound healing in lambs following mulesing. AVJ 2007 <<in press>>
2. Sheil ML, Luxford C, Davies MJ, Peat JK, Nunn G, Celermajer DS. Protein oxidation injury occurs during pediatric cardiopulmonary bypass. J Thorac Cardiovasc Surg. 2005 Oct;130(4):1054-61.
2. Sheil ML, Cartmill TB, Nunn GR, Sholler GF, Raitakari OT, Celermajer DS. Intraoperative Contrast Echocardiography - Potential For The In-Vivo Assessment Of Pediatric Myocardial Preservation. Ann Thorac Surg. 2003 May;75(5):1542-82.
3. Sheil MLK, Baines DB. Routine intraoperative transoesophageal echocardiography for paediatric cardiac surgery – audit of initial 200 cases. J Anaesth and Intensive Care. Dec 1999; 27:591-595.
4. Bayfield MS, Lindner JR, Kaul S, Ismail S, Sheil ML, Goodman NC, Zacour R, Spotnitz YM. Deoxygenated blood minimizes adherence of sonicated albumin microbubbles during cardioplegic arrest and after blood reperfusion: experimental and clinical observations with myocardial contrast echocardiography. J Thorac Cardiovasc Surg. 1997 Jun; 113 (6):1100-8.
5. Sheil M, Kaul S, Spotnitz W. Myocardial contrast echocardiography; development, applications and future directions. Am J Invest Radiol 1996; 3 No 3:260-275.
6. Sheil M, Jenkins O, Sholler G. Echocardiographic assessment of aortic root dimensions in normal children based on measurement of a new ratio of aortic size independent of growth. Am J Cardiol 1995;75:711-715.
7. Sheil ML, Sholler G. Echocardiographic assessment of patent ductus arteriosus morphology and relevance to trans catheter ductal closure. Cardiol in the Young. June 1993 Suppl 1.
8. Sheil MLK, Cartmill, TB, Nunn G, Sholler GF, Raitakari OT, Celermajer DS. Myocardial persistence of sonicated albumin microbubbles predicts the need for prolonged support after congenital heart surgery. Circ (Abstr) 1998.