

## CURRICULUM VITAE

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Boston MA 02115

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**Place of Birth:** Australia

### **Education:**

#### Degree

1980 M.B.B.S. Melbourne University, Melbourne, Australia

#### Fellowships

1987 FFARACS Anaesthesia, Australia

1991 FFIANZCA Intensive Care, Australia

### **Post Doctoral Training:**

1981 Intern Austin Hospital, Melbourne, Australia

1982-83 Surgical Resident Austin Hospital, Melbourne, Australia

1984-87 Anaesthesia Registrar Austin Hospital, Melbourne, Australia

1988 Intensive Care Registrar Royal Children's Hospital, Melbourne, Australia

### **Licensure and Certification:**

1981 Medical Board of Victoria, Australia

1988 Fellow, Faculty of Anaesthesia, Royal Australasian College of Surgeons

1991 ECFMG

1991 ICU Endorsement, Faculty of Anaesthesia, RACS

1992 Fellow, Australian and New Zealand College of Anaesthetists (FANZCA)

1992 Temporary Medical License, Commonwealth of Massachusetts

1993 Federal Licensing Examinations (FLEX)

1994 Permanent Medical License, Commonwealth of Massachusetts

1995 Fellow, Faculty of Intensive Care, Australian and New Zealand College of  
Anaesthetists (FFICANCA)

2002 Foundation Fellowship, Joint Faculty of Intensive Care Medicine (FJFICM),  
Australia

### **Academic Appointments:**

1992-97 Instructor in Anaesthesia, Harvard Medical School

1997-00 Assistant Professor in Anesthesia, Harvard Medical School

2000-08 Associate Professor in Anesthesia, Harvard Medical School

2008- Professor in Anesthesia, Harvard Medical School

### ***Hospital Appointments***

- 1989-92 Staff Anaesthetist, Royal Children's Hospital, Melbourne, Australia
- 1992-94 Assistant in Anesthesia, Children's Hospital, Boston, MA
- 1994-98 Associate in Anesthesia, Children's Hospital, Boston, MA
- 1996-00 Assistant in Cardiology, Children's Hospital, Boston, MA
- 1998- Senior Associate in Anesthesia, Children's Hospital, Boston, MA.
- 1999-06 Affiliate Staff Anesthesiologist, Brigham and Women's Hospital, Boston
- 2000-02 Associate in Cardiology, Children's Hospital, Boston, MA.
- 2002- Chief, Division Cardiovascular Intensive Care, Department of Cardiology, Children's Hospital, Boston
- 2002- D.D.Hansen Chair of Pediatric Anesthesia, Children's Hospital, Boston
- 2002- Senior Associate in Cardiology, Children's Hospital, Boston

### ***Principal medical school service responsibilities***

#### Harvard Medical school, Boston, Massachusetts

- 2003- Member, Admissions committee

### ***Principal hospital service and administrative responsibilities:***

#### Royal Children's Hospital, Melbourne, Australia

- 1990-92 Pain treatment service

#### Children's Hospital, Boston, Massachusetts

- 1996-99 member, Ethics Advisory Committee
- 1996-02 Member, Physician Leadership Council
- 2002- General Clinical Research Center, Scientific Advisory Committee
- 2003-06 Critical Care Operating Committee
- 2003- Member, Pharmacy and Therapeutics Committee
- 2004- Member, Resuscitation Committee
- 2005- Chairperson, Task Force on Donation after Cardiac Death
- 2005- Chairperson, Intensive Care Nosocomial Infection Oversight Committee, Program for Patient Safety and Quality
- 2005-06 Member, Capacity Management Workgroup
- 2005- Member, Resuscitation Oversight Committee
- 2006- Chairperson, Governance Committee of the Intensive Care Units
- 2008- Member, Physician Leadership Council
- 2008 Children's Hospital Quality and Safety Leadership Development Program

#### Department of Anesthesia, Perioperative and Pain Medicine, Children's Hospital, Boston

- 1992-96 Assistant Director Cardiac Anesthesia Service
- 1996-02 Co-Director, Cardiac Anesthesia Service
- 1999-01 Board of Director, CHMC Anesthesia Foundation

#### Department of Cardiology, Children's Hospital, Boston

- 1996- Operating Committee, Cardiovascular Program

1997-05 Director, Cardiac ECMO, Children's Hospital  
 1996-00 Assistant Director, Cardiac Intensive Care Unit  
 2000-02 Associate Director, Cardiac Intensive care Unit  
 2001-03 Member, Scientific Review Committee  
 2002- Director, Cardiac Intensive Care Unit  
 2002- Chairperson, Resuscitation Review Committee  
 2004- Chairperson, Cardiovascular Program Nosocomial Infection Program  
 2004- Member, Cardiovascular and Critical Care Policy Review Committee  
 2004-05 Board of Directors, Boston Children's Heart Foundation  
 2008- Board of Directors, Boston Children's Heart Foundation

***Committee assignments:***

*Harvard Medical School, Boston*

1998 Congenital Heart Disease Task Force

*Children's Hospital, Boston*

2003 Member: Search committee, Director of the Neonatal Intensive Care Unit  
 2004-05 Chairperson, Search committee, Chief Division of Critical Care Medicine  
 2005 Member, Catheterization Laboratory Review committee  
 2008 Member: Search committee, Chief Medical Information Officer  
 2008 Member, Defining Models of Care strategic implementation committee  
 2008 Member, Financial Implications for Complex Patients Subcommittee

*Department of Cardiology, Boston*

1994-95 Member, Clinical Practice Guideline Committee, ECMO  
 1994- Member, Clinical Practice Guideline Committee, Cardiovascular Program.  
 1995-03 Member, Quality Improvement Committee  
 1999-01 Charge Master Committee, Cardiovascular Program  
 2005- Chairperson, Clinical Practice Review Committee, Cardiac Intensive Care Unit

*Regional*

2001 Boston MedFlight Review Committee  
 2007- Group Leader, Pediatric HAI Affinity Group (VAP), Betsy Lehman Center for Patient Safety and Medical Error Reduction, Massachusetts

*National*

2004- Member, Pediatric Heart Network Steering Committee  
 2005 Member, Multi-center Panel of Experts for Cardiac Surgery Outcomes

***Memberships, Offices, and Committee Assignments in Professional Societies:***

*Australia*

1986- Member, Australian Society of Anaesthetists  
 1989-92 Member, Senior Medical Staff Association, Royal Children's Hospital

*United States*

- 1992- Member, Massachusetts Medical Society.
- 1992- Member, Medical Staff Association, Children's Hospital
- 1992- Member, American Society of Anesthesiologists.
- 1993- Member, Society of Pediatric Anesthesiologists.
- 1993- Member, International Anesthesia Research Society.
- 1994-01 Member, Society of Cardiovascular Anesthesiologists.
- 1997-03 Committee for International Education and Service, Society of Pediatric Anesthesiologists.
- 1999-01 Education Committee, Society of Cardiovascular Anesthesiologists.
- 1999-01 Co-Chair, Pediatric Cardiac Anesthesia workshop, Society of Cardiovascular Anesthesiologists.
- 2003- Member, Pediatric Cardiac intensive Care Society
- 2004- Board of Directors, Pediatric Cardiac Intensive Care Society
- 2006- Pediatric Research task Force, American Heart Association National Registry of Cardiopulmonary Resuscitation

***Editorial Boards and Ad hoc review***

- 1995-98 Expert Analyst, Editorial Board of Cardiovascular and Thoracic Anesthesia Journal Club Journal.
- 1995- Ad Hoc reviewer, Anesthesia and Analgesia,
- 1996- Ad Hoc reviewer, Circulation
- 1997- Ad Hoc reviewer, Journal of Thoracic and cardiovascular Surgery
- 1998- Ad Hoc reviewer, Critical Care Medicine.
- 1999- Ad Hoc reviewer, Journal of Thoracic Surgery.
- 2000- Editorial Board, Annals of Cardiac Anaesthesia
- 2001- Editorial Advisory Board, Paediatric Anaesthesia
- 2006- Ad Hoc reviewer, Intensive Care Medicine

***Awards and Honors:***

- 1993 Teacher of the Year, Department of Anesthesia, Children's Hospital, Boston
- 1995 Teacher of the Year, Department of Anesthesia, Children's Hospital, Boston
- 1999 Teacher of the Year, Department of Cardiology, Children's Hospital, Boston
- 2000 "One of the top five Abstracts", International Anesthesia Research Society
- 2007 Teacher of the Year: Pediatric Critical Care, Department of Anesthesia, Pain and perioperative Medicine, Children's Hospital, Boston.

**BIBLIOGRAPHY**

***Original Reports:***

1. Laussen PC, Shann F, Butt W, Tiballs J. Plasmapheresis in acute theophylline toxicity. Crit Care Med 1991;19:288-90.
2. Robinson S, Laussen PC, Brown TCK, Woodward A. Anaesthesia for sacrococcygeal teratoma: A case report and review of 32 cases. Anaesth Intens Care 1992;20(3):354-58.

3. Pawade AS, Waterson L, Laussen PC, Karl TR, Mee RBB. Cardio-pulmonary bypass in neonates weighing less than 2.5 kg: analysis of risk factors for early and late mortality. *J Card Surg* 1993; 8(1):1-8.
4. Wolf AR, Eyres RL, Laussen PC, Edwards J, Stanley IJ, Rowe P, Simon L. Effect of extradural analgesia on stress responses to abdominal surgery in infants. *Br J Anaesth* 1993;70(6):654-60.
5. Gentles TL, Rosenfeld HM, Sanders SP, Laussen PC, Burke RP, van der Valde ME. Pediatric biplane transesophageal echocardiography. Preliminary experience. *Am Heart J* 1994;128(6 pt1):1225-33.
6. Laussen PC, Hansen DD, Fox LM, Javorski JJ, Burrows FB, Perry SP, Lock JE, Hickey PR. Hemodynamic instability associated with VSD device closure: anesthetic implications. *Anesth Analg* 1995;80(6):1076-82.
7. Lovoie J, Walsh EP, Laussen PC, Hansen DD. Effects of propofol or isoflurane anesthesia on cardiac conduction in children undergoing radiofrequency ablation for tachydysrhythmias. *Anesthesiology* 1995;82(4):884-88.
8. Javorski JJ, Hansen DD, Laussen PC, Fox ML, Lavoie J, Burrows FA. Anesthesia for Pediatric Cardiac Catheterization: Innovations. *Can J Anaesth.* 1995;42 (4):pp 310-329
9. Forbess JM, Ibla JC, Lidov HGW, Laussen PC, Hiramatsu T, Takuya M, Jonas RA. University of Wisconsin cerebroproplegia in a piglet survival model of circulatory arrest. *Ann Thorac Surg* 1995;60:S494-500.
10. Laussen PC, Reid RW, Stene RA, Pare DS, Hickey PR, Jonas RA, Freed MD. Tracheal extubation of children in the operating room following atrial septal defect surgery as part of a clinical practice guideline. *Anesth Analg* 1996;82(5):988-93.
11. Miura T, Laussen PC, Shin'oka T, du Plessis A, Lidov H, Jonas RA. Intermittent whole body perfusion with "somatoplegia" versus blood perfusate to extend the duration of circulatory arrest. *Circulation* 1996;94(suppl II):II-56-II-62.
12. Shin'oka T, Miura T, Laussen PC, Shum-Tim D, Schermerhorn M, duPlessis A, Lidov H, Jonas RA. Higher hematocrit improves cerebral outcome after deep hypothermic circulatory arrest. *J Thorac Cardiovasc Surg* 1996;112(6):1610-21.
13. Fox ML, Burrows FA, Reid RW, Hickey PR, Laussen PC, Hansen DD. The Influence of Cardiopulmonary Bypass on Ionized Magnesium in Neonates, Infants and Children Undergoing Repair of Congenital Heart Lesions. *Anesth Analg* 1997;84(3):497-500.
14. Reid RW, Zimmerman AA, Laussen PC, Mayer JE, Gorlin JB, Burrows FA. Efficacy of Tranexamic Acid versus Placebo in Decreasing Blood Loss in Pediatric Patients Undergoing Repeat Cardiac Surgery. *Anesth Analg* 1997;84(5):990-6.
15. Tabbatt S, Duncan BW, McLaughlin D, Wessel DL, Jonas RA, Laussen PC. Delayed sternal closure following cardiac surgery in a pediatric population. *J Thorac Cardiovasc Surg* 1997;113(5):886-93.
16. Shin'oka T, Shum-Tim D, Laussen PC, Zinkovsky SM, Lidov HGW, du Plessis A, Jonas RA. Effects of oncotic pressure and hematocrit on outcome after hypothermic circulatory arrest. *Ann Thorac Surg* 1998;65(1):155-64.
17. Holtzman D, Mulkern R, Meyers R, Cook C, Allred E, Khait I, F, Tsuji M, Laussen PC. In Vivo phosphocreatinine and ATP in piglet cerebral gray and white matter during seizures. *Brain Research* 1998;783(1):19-27.

18. Rosenfeld HM, Gentles TL, Wenovsky G, *Laussen PC*, Jonas RA, Mayer JE Jr, Colan SD, Sanders SP, van Der Valde ME. Utility of intraoperative transesophageal echocardiography in the assessment of residual cardiac defects. *Pediatr Cardiol* 1998;19(4):346-351.
19. Duncan BW, Ibrahim AE, Hraska V, del Nido PJ, *Laussen PC*, Wessel DL, Mayer JE Jr, Bower LK, Jonas RA. The use of rapid-deployment extracorporeal membrane oxygenation for the resuscitation of pediatric patients with heart disease after cardiac surgery. *J Thorac Cardiovasc Surg* 1998;11(2)6:305-311.
20. Shum-Tim D, Nagashima M, Shinoka T, Bucarius J, Nollert G, Lidov HG, du-Plessis A, *Laussen PC*, Jonas RA. Postischemic Hyperthermia exacerbates neurologic injury after deep hypothermic circulatory arrest. *J Thorac Cardiovasc Surg* 1998;116(5):780-92.
21. Duncan BW, Hraska V, Jonas RA, Wessel DL, delNido PJ, *Laussen PC*, Mayer JE, Lapierre RA, Wislon JM. Mechanical circulatory support in children with cardiac disease. *J Thorac Cardiovasc Surg* 1999;117(3):529-42.
22. Gruber EM, Jonas RA, Newburger JW, Zurakowski D, Hansen DD, *Laussen PC*. The effect of hematocrit on cerebral blood flow velocity in neonates and infants undergoing deep hypothermic cardiopulmonary bypass. *Anesth Analg* 1999;89(2):322-7.
23. McGowan FX, *Laussen PC*. Con: Transesophageal Echocardiography Should be Used Routinely for Pediatric Open heart Surgery. *J Cardiothorac Vasc Anesth* 1999;13:632-4.
24. Shin'oka T, Nagashima M, Nollert G, Shum-Tim D, *Laussen PC*, Lidov HGW, du Plessis A, Jonas RA. A novel Sialyl Lewis X analog attenuates cerebral injury after deep hypothermic circulatory arrest. *J Thorac Cardiovasc Surg* 1999;117(6):1204-11.
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26. *Laussen PC*, Bichell DP, McGowan FX, Zurakowski D, David Ray Demaso, Mayer JE Jr, del Nido PJ. An evaluation of patient recovery after minimally invasive surgery and full length sternotomy for repair of atrial septal defects in children. *Ann Thoracic Surg* 2000;69(2):591-6.
27. Munoz R, *Laussen PC*, Palacio G, Zienko L, Piercey G, Wessel DL. Whole blood ionized magnesium: age-related differences in normal values and clinical implications of ionized hypomagnesemia in patients undergoing congenital cardiac surgery. *J Thoracic Cardiovasc Surg* 2000;11(5)9:891-8.
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30. Odegard KC, Kirse DJ, delNido PJ, *Laussen PC*, Casta A, Booke J, Kenna KA, McGowan FX. Intraoperative Recurrent Laryngeal Nerve Monitoring During Video-Assisted Thoracoscopic Surgery (VATS) for patent Ductus Arteriosus. *J Cardiovasc Thorac Anesth* 2000;14:562-4.

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32. Gruber EM, Laussen PC, Casta A, Zimmerman AA, Zurakowski D, Reid R, Odegard KC, Chakravorti S, Davis PJ, McGowan FX, Hickey PR, Hansen DD. Stress response in infants undergoing cardiac surgery: a randomized study of fentanyl bolus, fentanyl infusion and fentanyl-midazolam infusion. *Anesth Analg* 2001;92(4):882-90.
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36. Sakamoto T, Hatsuoka S, Stock UA, Duebener LF, Lidov HGW, Holmes GL, Sperling JS, Munakata M, Laussen PC, Jonas RA. Prediction of safe duration of hypothermic circulatory arrest by near infrared spectroscopy. *J Thorac Cardiovas Surg* 2001;122(2):329-50.
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38. Duncan BW, Bohn DJ, Atz AM, French JW, Laussen PC, Wessel DL. Mechanical circulatory support for the treatment of children with acute fulminant myocarditis. *J Thoracic Cardiovas Surg*. 2001;122(3):440-8.
39. Kussman BD, Gruber EM, Zurakowski D, Hansen DD, Sullivan LJ, Laussen PC. Bispectral Index monitoring during infant cardiac surgery: relationship of BIS to the stress response and plasma fentanyl levels. *Paediatr Anaesth* 2001;11(6):663-669
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42. Soriano SG, McCann ME, Laussen PC. Neuroanesthesia: Innovative techniques and monitoring. *Anesth Clinics North America*. 2002;20 (1):137-51
43. Odegard KC, Modest S, Laussen PC. Parental presence during induction of anaesthesia for children undergoing cardiac surgery. *Paediatric Anaesth* 2002;12(3):261-6.
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46. Odegard KC, McGowan FX, Zurakowski D, DiNardo JA, Castro RA, delNido PJ, *Laussen PC*. Coagulation factor abnormalities in patients with single ventricle physiology immediately prior to the Fontan procedure. *Ann Thorac Surg* 2002;73(6):1770-7
47. Levine D, Carmichael T, *Laussen PC*. Independent lung ventilation in a patient with complex congenital heart disease. *Respir Care* 2002;47(6):688-92.
48. Sarker M, Odegard KC, *Laussen PC*. Cardiac surgery in a child with sacral and intrasacral hemangioma. *Paediatr Anaesth* 2002;12(6): 552-5
49. Booth KL, Roth SJ, Perry SP, del Nido PJ, Wessel DL, *Laussen PC*. Cardiac catheterization of patients supported by extracorporeal membrane oxygenation. *J Am Coll Card* 2002;40(9):1681-6
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52. *Laussen PC*, Roth PJ. Fast Tracking: Efficiently and Safely Moving Patients Through the Intensive Care Unit. *Prog Ped Cardiol* 2003;18;149-158
53. Jonas RA, Wypji D, Roth SJ, Bellinger DC, Visconti KJ, du Plessis AJ, Goodkin H, *Laussen PC*, Farrell DM, Bartlett J, McGrath E, Rappaport LJ, Bacha EA, Forbess JM, del Nido PJ, Mayer JE Jr, Newburger JW. The Influence of Hemodilution Outcome after Hypothermic Cardiopulmonary bypass: Randomized Trial in Infants. *J Thorac Cardiovasc Surg* 2003;126(6):1765-74
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59. Sakamoto T, Duebener LF, Laussen PC, Jonas RA. Cerebral ischemia caused by obstructed superior vena cava cannula is detected by near infra red spectroscopy. *J Cardiothorac Vasc Anesth* 2004;18(3):293-303
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64. Cua CL, Thiagarajan RT, Taeed R, Hoffman TM, Laussen PC, Feltes TF. Improved Inter-Stage Mortality with the Modified Norwood Procedure, a Meta-Analysis. *Ann Thorac Surg.* 2005;80(1):44-49
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68. Mackie AS, Booth KL, Newburger JW, Gauvreau K, Huang SA, Laussen PC, DiNardo JA, del Nido PJ, Mayer, JE Jr, Jonas RA, McGrath E, Elder J, Roth SJ. A randomized, double-blind, placebo-controlled pilot trial of triiodothyronine in neonatal heart surgery. *J Thoracic Cardiovasc Surg* 2005;130(3):810-6
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71. Costello JM, Thiagarajan RR, Dionne RE, Allan CK, Booth KL, Burmester M, Wessel DL, Laussen PC. Initial experience with fenoldopam following cardiac surgery in neonates with an insufficient response to conventional diuretics. *Pediatr Crit Care Med* 2006;7 (1): 28-33

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73. Allan CK, Thiagarajan RR, Armsby LR, del Nido PJ, Laussen PC. Emergent use of Extracorporeal Membrane Oxygenation during pediatric cardiac catheterization. *Pediatr Crit Care Med* 2006 Feb:7:212-19
74. Booth KL, Guleserian KJ, Mayer JE, Laussen PC. Extracorporeal membrane oxygenation support of a neonate with percutaneous femoral arterial cannulation. *Ann Thorac Surg* 2006 April:81(4):1514-16
75. Meadows J, Marshall AC, Lock JE, Scheurer M, Laussen PC, Bacha EA. A Hybrid Approach to Stabilization and Repair of Obstructed Total Anomalous Pulmonary Venous Connection in a Critically Ill Newborn. *J Thorac Cardiovasc Surg* 2006 Apr:131(4):e1-2
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77. Costello JM, Thiagarajan RR, Wessel DL, Laussen PC. Letter to the Editor "Reply: Fenoldopam after pediatric cardiac surgery-what is conventional diuretic therapy?". *Pediatr Crit Care Med* 2006; 7 (4): 399-400
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79. Piper HG, Alexander J, Shukla A, Costello JM, Laussen PC, Pigula F, Jaksic T, Agus M. Real-Time Continuous Glucose Monitoring in Pediatric Cardiac Surgery Patients. *Pediatrics* 2006 Sept;118(3):1176-84.
80. Yeager SB, Horbar JD, Greco KM, Duff J, Thiagarajan RR, Laussen PC. Pre and Post Transport Characteristics and Outcomes of Neonates Admitted to a Cardiac Intensive Care unit. *Pediatrics* 2006 Sept;118(3):1070-7.
81. Durrall A, Laussen PC, Randolph A. Potential for Donation after Cardiac Death in a Children's Hospital. *Pediatrics* 2007;119:219-224
82. Allan KC, Thiagarajan RR, del Nido PJ, Roth SR, Almodovar MA, Laussen PC. Indication for Initiation of Mechanical Circulatory Support Impacts Survival of Infants with Shunted Single Ventricle Circulation Supported with Extracorporeal Membrane Oxygenation. *J Thorac Cardiovasc Surg* 2007;133:660-7
83. Kussman BK, Gauvreau, DiNardo JA, Newburger JW, Mackie AS, Booth KL, del Nido PJ, Roth SJ, Laussen PC. Cerebral perfusion and oxygenation after the Norwood procedure: comparison of right ventricle to pulmonary artery conduit with modified Blalock Tausig shunt. *J Thoracic Cardiovasc Surg* 2007;133:648-55
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