

CURRICULUM VITAE

A/Prof Christian BRIZARD
MS, MD

IDENTIFICATION:

Surname: BRIZARD
Name: Christian Pierre Robert
Born: 18 July 1959, Paris, France
Nationality: French, Australian
Telephone: +61 3 9345 5200
Fax: +61 3 9345 6001
E-mail: christian.brizard@rch.org.au

Fluent Languages: French & English

CURRENT APPOINTMENTS / EMPLOYMENT:

1999: Director, Cardiac Surgery Unit, Royal Children's Hospital, Melbourne, Australia
Associate Professor of Pediatrics, the University of Melbourne
1995: Consultant Cardiac Surgeon, Royal Children's Hospital, Melbourne, Australia
Honorary Research Fellow, Murdoch and Children's Research Institute
Board member, "Heart Institute", Ho Chi Minh City, Viet Nam
Clinical Professor, Korea University, Seoul, Korea

MEDICAL STUDIES:

1976-83: Medical school of the Université PARIS VII.
1983: Interne des Hôpitaux de Paris. Rank 32/260
1988: Diploma of Vascular Surgery
1989: Medical Doctor
1994: DEA (diplôme d'études approfondies), Sciences Chirurgicales (equivalent to MS).

SURGICAL CERTIFICATION:

1993: French Board of Surgery
1995: French Board of Thoracic Surgery

REGISTRATION:

Paris, France: General Surgery, Thoracic Surgery # 55.707
London, United Kingdom: Cardio-Thoracic Surgery # 5181729
Australia: Cardio-Thoracic Surgery, # MED0001160757

SURGICAL TRAINING:

- 1983-1989: Residency with the Assistance Publique - Hôpitaux de Paris
6 months rotation. 1 cardiac surgery, 2 general surgery.
- May 1985 to July 1986: Interruption for military service
- May 1985-May 1986: Assistant surgeon, Hôpital Principal de Dakar, Sénégal.
General surgery, orthopedics, gynecology, obstetrics
- July 1986 to October 1986: Non-accredited position
Clinique Mutualiste de la Porte de Choisy. Pr Brisset: Urology
- Nov 1986 to Dec 1989: Residency with the Assistance Publique - Hôpitaux de Paris
6 months rotation : 1 thoracic surgery, 1 thoracic and vascular surgery, 1 vascular surgery, 3 cardiac surgery, 1 paediatric cardiology
- Jan to Dec 1990 Clinical Fellowship in Paediatric Cardiac Surgery. Dr Mee, RCH, Melbourne

PAST POSITION:

- Jan 1991 to Dec 1995: Assistant des hôpitaux (Consultant Cardiac surgeon).
Department of Cardiovascular Surgery, Pr Carpentier, Hôpital Broussais, Paris.
Adult cardiac surgery and coordinator and responsible for the pediatric program.
Chef de Clinique Chirurgicale (Assistant Professor).
Université Paris VI.

RESEARCH ACTIVITY POSTS

- 1983-89: Part-time researcher,
Laboratoire d'étude des greffes et prothèses cardiaques. Pr Carpentier.
- 1991-96: Principal investigator,
Laboratoire d'étude des greffes et prothèses cardiaques. Pr Carpentier.
Fontan physiology
- 1993 June-Sept Visiting research fellow,
Pr Castaneda. Children's Hospital, Boston, USA.
Fontan physiology
- 1996 to now: Principal and associate investigator for several clinical and experimental research projects.
RCH, Melbourne
Main topic: Utilization of Cord Stems Cells in congenital hearts.
- Aug 2005-Aug 07 Supervisor for Ben Davies, PhD Student
"Evaluation of transplanted human cord blood stem cells to improve cardiac function in a neonatal ovine model of right ventricular training"
- Jan 2012 to now: Manager and supervisor. Heart Research. MCRI

EXTERNAL RESEARCH FUNDING / GRANTS

1993	Assistance Publique – Hôpitaux de Paris. Fontan circulation and the liver, traveling grant Boston Children's Hospital	60 000 FF
2002	National Heart Foundation of Australia The role of DSCR1 in the Down Syndrome heart	50,000 AUD
2003	National Heart Foundation of Australia Optimizing Cardiac Function after surgery for congenital heart disease Investigator	100,000 AUD
2003	Novonordisk Recombinant factor VIIa following cardiac bypass surgery for pediatric congenital heart disease. Principal investigator	60,000 AUD
2007	Philip Bushell Foundation Evaluation of the role of chord stem cells in the treatment of the HLHS. Principal investigator	160,000 AUD
2011	Heart Kids Australia Clinical utilization of autologous chord stem cells in the treatment of HLHS. Principal investigator	174,000 AUD
2012	Heart Kids Australia Cord blood stem cell function in hypoplastic left heart syndrome (HLHS) babies Principal Investigator	49,700 AUD

PROFESSIONAL ASSOCIATIONS:

- Société Française de Chirurgie
- Société Française de Cardiologie
- Society of Thoracic Surgeons
- European Association for Cardio-Thoracic Surgery
- Australasian Society of Cardiovascular Perfusionists
- Transplantation Society of ANZ

MEETINGS ORGANISED:

4th World congress of pediatric cardiology and cardiac surgery, Buenos Aires 2005
Member of the International Scientific committee

5th World congress of Pediatric cardiology and cardiac surgery, Cairns 2009.
Member of the organizing committee
Chairman of the surgical program committee.

GUEST REVIEWER FOR:

- Annals of Thoracic Surgery
- Journal of Thoracic and Cardiovascular Surgery
- Asian Cardiovascular & Thoracic Annals
- Heart Lung and Circulation
- Circulation

TEACHING ACTIVITIES

As Chef de Clinique (Assistant Professor) in Paris, I had teaching responsibilities in the Department to medical students and interns. In the University Paris VI, I was part of the team responsible for the teaching of Cardiology and Surgery to third, fourth and fifth year medical students.

In Melbourne I have informal teaching responsibilities to junior medical officers, nurses and registrars. More importantly, I have clinical fellows from all countries of the world who come to learn the pediatric cardiac surgery as it is practiced at the Royal Children's Hospital. As associate professor of pediatrics, I have rarely teaching assignments to medical students in the University of Melbourne. On the other hand, I have supervision responsibilities to advance medical studies (AMS) students from the University of Melbourne, and I have supervised Dr Ben Davies, for his PhD in our research unit.

Many of our clinical fellows have obtained outstanding clinical and academic positions after their Fellowship in my department. They include:-

Conal Austin 1996	Consultant Cardiac Surgeon Guy's Hospital, London
Young-Sang Sohn 1997	Professor of Surgery, University of Seoul
Shoji Suzuki 1998	Staff Surgeon, Second Department of Surgery, Associate Professor of Surgery, Faculty of Medicine, Yamanashi University, Japan
Joachim Photiadis 1999	Hertzchirurg, Deutsches Kinderherzzentrum Sankt Augustin, Sankt Augustin, Germany
Max Mitchell 1999	Staff Surgeon. Cardiac Surgery Department, Denver Children's Hospital, Associate Professor of Surgery, University of Colorado
Issam El Rassi 2000	Director Pediatric Cardiac Surgery Program, Hôtel Dieu de France, Beirut
Jae-Hyeon Yu 2000	Staff surgeon, Chungnam National University Hospital, Taejeon, Korea Assistant Professor at the College of Medicine, Chungnam National University
Shintaro Nemoto, 2002	Staff Surgeon, Department of Cardiovascular Surgery Associate Professor, Kyoto University
Nguyen Phan Vien, 2003	Staff surgeon, Deputy Director, Ho Chi Minh Heart Institute, Viet Nam
Shaun Setty, 2004	Staff surgeon, Ochsner Medical Center, Louisiana, USA
Rafael Guerrero, 2005	Consultant cardiac surgeon, Leeds paediatric hospital, UK
Martin Norgaard, 2005	Consultant cardiac surgeon, Denmark
David Michael McMullan, 2006	Associate professor of surgery, University of Seattle
Nelson Alphonso, 2007	Director, Cardiac surgery department, Liverpool UK Director, Cardiac Surgery Unit, Mater Children's Hospital, QLD
Guido Oppido, 2008	Consultant cardiac surgeon, Bologna, Italy
Luca Barozzi, 2009	Consultant Cardiac Surgeon, Verona, Italy
Nguyen Luong Tan, 2010	Consultant pediatric cardiac surgeon, Hué Central Hospital, Viet Nam
Caner Salih, 2010	Consultant cardiac surgeon, Guy's Hospital,
Lyobomyr Bohuta, 2010	Consultant cardiac surgeon, and Director of Cardiac Surgery Unit at Ukrainian Children's Cardiac Centre, Ukraine

STUDENT SUPERVISION

Javariah Siddiqui	University of Melbourne – AMS	2009-10
Brodie Loudon	University of Melbourne – AMS	2010-11

PUBLICATIONS

1. Anatomic study of the vascularization of the pericardial fat: application to pedicled flaps. Brizard C, Riquet M, Debesse B, Hidden G. *Surgical & Radiologic Anatomy*. 1989;11:80-1
2. Repeated surgery for recurrent dissection of the aorta. Bachet J, Brizard C, Goudot B, Dreyfus G, Teodori G, Brodaty D, Dubois C, Delentdeker P, Guilmet D. *European Journal of Cardio-Thoracic Surgery*. 1990;4:238-43; discussion 243-4
3. Mycotic aneurysm of the carotid artery secondary to acute bacterial endocarditis. Jebara VA, Dervanian P, Acar C, Portoghese M, Brizard C, Mihaileanu S, Hanania G, Deloche A, Fabiani JN, Carpentier A. *Archives des Maladies du Coeur et des Vaisseaux*. 1992;85:1615-8
4. Cardiac hemangiomas. Brizard C, Latremouille C, Jebara VA, Acar C, Fabiani JN, Deloche A, Carpentier AF. *Annals of Thoracic Surgery*. 1993;56(2):3904
5. Left ventricular outflow tract obstruction after mitral valve repair. Results of the sliding leaflet technique. Jebara VA, Mihaileanu S, Acar C, Brizard C, Grare P, Latremouille C, Chauvaud S, Fabiani JN, Deloche A, Carpentier A. *Circulation*. 1993;88(Suppl II):II30-4
6. Downsizing of valve allografts for use as right heart conduits. Hiramatsu T, Miura T, Forbess JM, Brizard C, Jonas RA. *Annals of Thoracic Surgery*. 1994;58:339-42; discussion 342-3
7. Mitral valve replacement with cryopreserved mitral homograft. Acar C, Farge A, Mihaileanu S, Berrebi A, Grare P, Brizard C, Gouezot R, Gerota J, Carpentier A. *Archives des Maladies du Coeur et des Vaisseaux*. 1994;87:281-4
8. Circulation intra-hépatique. C Brizard. *Annales de chirurgie*. 1995;49:444
9. Cardiomyoplasty for refractory heart failure. JC Chachques, C Brizard, M Tolan, A Berribi, P Kolar, JN Fabiani, A Carpentier. *Asia Pacific Heart Journal*. 1996;5:81-86
10. Chirurgie conservatrice pour insuffisance aortique congenitale. M Tapia, C Brizard, D Frémont, P Luxereau, M Delarrat, A Deloche, C Acar. *Archives des Maladies du Coeur et des Vaisseaux*. 1997;90(12):1611-1614
11. Management of the univentricular connection: are we improving? Cochrane AD, Brizard CP, Penny DJ, Johansson S, Comas JV, Malm T, Karl TR. *European Journal of Cardio-Thoracic Surgery*. 1997;12:107-15
12. Angiographic and electron-beam computed tomography studies of retrograde cardioplegia via the coronary sinus. Farge A, Mousseaux E, Acar C, Portoghese M, Ramsheyi A, Brizard C, Beyssen B, Lassau JP, Gaux JC, Carpentier A. *Journal of Thoracic & Cardiovascular Surgery*. 1996;112:1046-53
13. Management strategy and long-term outcome for truncus arteriosus. Brizard CP, Cochrane A, Austin C, Nomura F, Karl TR. *European Journal of Cardio-Thoracic Surgery*. 1997;11:687-95, discussion 695-6.
14. Senning plus arterial switch operation for discordant (congenitally corrected) transposition. Karl TR, Weintraub RG, Brizard CP, Cochrane AD, Mee RB. *Annals of Thoracic Surgery*. 1997;64:495-502
15. Arterial switch operation. Surgical solutions to complex problems. Karl TR, Cochrane A, Brizard CP. *Texas Heart Institute Journal*. 1997;24:322-33
16. Arterial Switch in hearts with left ventricular outflow and pulmonary valve abnormalities. Sohn YS, Brizard CP, Cochrane A, Wilkinson JL, Mas C, Karl TR. *Annals of Thoracic Surgery*. 1998;66:842-8
17. Centrifugal ventricular assist in children under 6 kg. Thuys CA, Mullaly RJ, Horton SB, O'Connor EB, Cochrane AD, Brizard CP, Karl TR. *European Journal of Cardio-Thoracic Surgery*. 1998;13:130-134
18. The surgical importance of coronary sinus orifice atresia. Fulton JO, Mas C, Brizard CP, Karl TR. *Annals of Thoracic Surgery*. 1998;66:2112-4

19. Transatrial-Transpulmonary tetralogy of Fallot repair is effective in the presence of anomalous coronary arteries. Brizard CP, Mas C, Sohn Y, Cochrane AD, Karl TR. *Journal of Thoracic and Cardiovascular Surgery*. 1998;116:770-779
20. Excellent long term functional outcome after surgery for anomalous left coronary artery from the pulmonary artery. Cochrane AD, Coleman D, Davis AD, Brizard CP, Karl TR. *Journal of Thoracic and Cardiovascular Surgery*. 1999;117:332-342
21. Does left ventricular outflow obstruction influence the outcome of interrupted aortic arch repair? Fulton JO, Mas C, Brizard CP, Cochrane AD, Karl TR. *Annals of Thoracic Surgery*. 1999;67:177-181
22. Use of native pulmonary valve for Damus-Kaye-Stansel connections in previously transected pulmonary arteries. Broekhuis E, Brizard CP, Cochrane AD, Mee RB, Karl TR. *Annals of Thoracic Surgery*. 1999;67:519-21.
23. IL-6 and IL-8 levels following cardiopulmonary bypass are not affected by surface coating. Horton SB, Mullaly RJ, Butt W, Thuys CA, O'Connor EB, Byron K, Cochrane AD, Brizard CP, Karl TR. *Annals of Thoracic Surgery*. 1999;68:1751-5.
24. Advances in the surgical approach to congenital heart disease. Karl TR, Cochrane AD, Brizard CP. *Current opinion in Pediatrics*. 1999; (5):419-24, 1999 Oct.
25. Clinical features and management of isolated cleft mitral valve in a pediatric population. Tamura M, Menahem S, Brizard CP. *Journal of the American College of Cardiology*. 2000;(35):764-70.
26. Model of complete separation of the hepatic veins from the systemic venous system. Brizard CP, Goussef N, Chachques JC, Carpentier AF. *Annals of Thoracic Surgery*. 2000;70:2096-101.
27. Intravenous Sildenafil and inhaled nitric oxide: a randomized trial in infants after cardiac surgery. Stoker C, Penny DJ, Brizard CP, Cochrane AD, Soto R, Shekerdemian LS. *Intensive Care Med*. 2003;29:1996-2003
28. Experience with the Jostra Rotaflow and QuadroxD oxygenator for ECMO. Horton S, Thuys C, Bennett M, Augustin S, Rosenberg M, Brizard C. *Perfusion*. 2004;19(1):17-23.
29. Improved early ventricular performance with a right ventricle to pulmonary artery conduit in stage one palliation for hypoplastic left heart syndrome: evidence from strain Doppler echocardiography. Hughes ML, Shekerdemian LS, Brizard CP, Penny DJ. *Heart*. 2004;90:191-194.
30. Pump-induced haemolysis: a comparison of short-term ventricular assist devices. Bennett M, Horton S, Thuys C, Augustin S, Rosenberg M, Brizard C. *Perfusion*. 2004;19(2):107-11.
31. Arterial switch with full-flow cardiopulmonary bypass and limited circulatory arrest: Neurodevelopmental outcome. Karl TR, Hall S, Ford G, Kelly EA, Brizard CP, Mee RB, Weintraub RG, Cochrane AD, Glidden D. *Journal of Thoracic and Cardiovascular Surgery*. 2004;127:213-222.
32. Long term outcome of left ventricular reconditioning and anatomic correction for systemic right ventricular dysfunction after atrial switch procedures. Poirier NC, Yu JH, Brizard CP, Mee RBB. *Journal of Thoracic and Cardiovascular Surgery*. 2004;127:975-981
33. Cardiopulmonary bypass elicits a prominent innate immune response in children with congenital heart disease. Stocker CF, Shekerdemian LS, Visvanathan K, Skinner N, Brizard CP, Carlin JB, Horton SB, Penny DJ. *Journal of Thoracic and Cardiovascular Surgery*. 2004;127:1523-25.
34. New approach to multiple ventricular septal defects closure using intra-operative echo and double patches sandwiching the septum. Brizard CP, Olsson C, Wilkinson JL. *Journal of Thoracic and Cardiovascular Surgery*. 2004;128:684-692

35. Successful aortic root remodeling for repair of a dilated pulmonary autograft after a Ross-Konno procedure in early childhood. Nemoto S, Sudarshan C, Brizard CP. *Annals of Thoracic Surgery*. 2004;78:48-50.
36. High-vacuum redivac drains rival conventional underwater-sealed drains after pediatric heart surgery. Newcomb A E, Alphonso N, Cochrane AD, Nørgaard MA, Karl TR, Brizard CP. *European Journal of Cardio-Thoracic Surgery*. 2005;27:395-9
37. Reconstruction of left main coronary artery with subclavian artery free graft in an infant. Guerrero RR, Wilkinson JL, Brizard CP. *European Journal of Cardio-Thoracic Surgery*. 2005;27:927-9
38. Modified technique creating fenestration in the extracardiac Fontan completion; kissing anastomosis. Nemoto S, Ikeda T, Brizard CP, Komeda M. *Kyobu Geka*. 2005 Sep;58(10):875-8
39. Cor triatriatum: presentation, diagnosis and long-term surgical results. Alphonso N, Norgaard MA, Newcomb A, d'Udekem Y, Brizard CP, Cochrane A. *Ann Thorac Surg*. 2005 Nov;80(5):1666-71
40. d'Udekem Y, Alphonso N, Norgaard MA, Cochrane AD, Grigg LE, Wilkinson JL, Brizard CP. Pulmonary atresia with ventricular septal defects and major aortopulmonary collateral arteries: unifocalization brings no long-term benefits. *J Thorac Cardiovasc Surg*. 2005 Dec;130(6):1496-502.
41. Neonatal isolated critical aortic valve stenosis: balloon valvuloplasty or surgical valvotomy. Zain Z, Zadinello M, Menahem S, Brizard CP. *Heart Lung Circ*. 2006 Feb;15(1):18-23.
42. Major aorto-pulmonary collateral arteries of patients with pulmonary atresia and ventricular septal defect are dilated bronchial arteries. Norgaard MA, Alphonso N, Cochrane AD, Menahem S, Brizard CP, d'Udekem Y. *Eur J Cardiothorac Surg*. 2006 May;29(5):653-8.
43. Successful left ventricular assist device bridge to transplantation after failure of a Fontan revision. Newcomb AE, Negri JC, Brizard CP, d'Udekem Y. *J Heart Lung Transplant*. 2006 Mar;25(3):365-7
44. Absent pulmonary valve syndrome. Surgical and clinical outcome with long-term follow-up. Norgaard MA, Alphonso N, Newcomb AE, Brizard CP, Cochrane AD. *Eur J Cardiothorac Surg*. 2006 May;29(5):682-7
45. The use of extracorporeal life support in the treatment of influenza-associated myositis/rhabdomyolysis. Augustin SL, Horton S, Thuys C, Bennett M, Claessen C, Brizard CP. *Perfusion*. 2006 Mar;21(2):121-5
46. Postoperative support with the centrifugal pump ventricular assist device (VAD). Karl TR, Horton SB, Brizard C. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu*. 2006:83-91
47. Surgical repair of infundibular ventricular septal defect and aortic regurgitation. Brizard C. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu*. 2006:153-60
48. Elective administration in infants of low-dose recombinant activated factor VII (rFVIIa) in cardiopulmonary bypass surgery for congenital heart disease does not shorten time to chest closure or reduce blood loss and need for transfusions: a randomized, double-blind, parallel group, placebo-controlled study of rFVIIa and standard haemostatic replacement therapy versus standard haemostatic replacement therapy. Ekert H, Brizard C, Evers R, Cochrane A, Henning R. *Blood Coagul Fibrinolysis*. 2006 Jul;17(5):389-95
49. Repair of coarctation of the aorta in infants weighing less than 2 kilograms. Sudarshan CD, Cochrane AD, Jun ZH, Soto R, Brizard CP. *Ann Thorac Surg*. 2006 Jul;82(1):158-63
50. Evaluation of downsized homograft conduits for right ventricle-to-pulmonary artery reconstruction. McMullan DM, Oppido G, Alphonso N, Cochrane AD, d'Udekem Y, Brizard CP. *J Thorac Cardiovasc Surg*. 2006 Jul;132(1):66-71
51. Cyanoacrylate adhesive coating for the treatment of serous leaks from modified Blalock-Taussig Gore-Tex shunts. Davies B, d'Udekem Y, Brizard CP. *Ann Thorac Surg*. 2006 Nov;82(5):1922-3

52. Surgical management of symptomatic cardiac fibromas in children. Davies B, Oppido G, Brizard CP. *J Thorac Cardiovasc Surg*. 2007 Jan;133(1):254-5.
53. Mechanisms of a reduced cardiac output and the effects of milrinone and levosimendan in a model of infant cardiopulmonary bypass. Stocker CF, Shekerdemian LS, Norgaard MA, Brizard CP, Mynard JP, Horton SB, Penny DJ. *Crit Care Med*. 2007 Jan;35(1):252-9
54. Polyflex stenting of tracheomalacia after surgery for congenital tracheal stenosis. Tibballs J, Fasulakis S, Robertson CF, Berkowitz RG, Massie J, Brizard C, Rose E, Bekhit E, Eyres R, Ragg P. *Int J Pediatr Otorhinolaryngol*. 2007 Jan;71(1):159-63. Surgical strategy for the bicuspid aortic valve: tricuspidization with cusp extension versus pulmonary autograft. McMullan DM, Oppido G, Davies B, Kawahira Y, Cochrane AD, d'Udekem d'Acoz Y, Penny DJ, Brizard CP. *J Thorac Cardiovasc Surg*. 2007 Jul;134(1):90-8.
56. Outcomes of surgical treatment of infants with hypoplastic left heart syndrome: an institutional experience 1983-2004. Tibballs J, Kawahira Y, Carter BG, Donath S, Brizard C, Wilkinson J. *J Paediatr Child Health*. 2007 Nov;43(11):746-51.
57. Partial cardiopulmonary bypass in infants with coarctation and anomalous right subclavian arteries. Setty SP, Brizard CP, d'Udekem Y. *Ann Thorac Surg*. 2007 Aug;84(2):715; author reply 715-6.
58. The Fontan procedure: contemporary techniques have improved long-term outcomes. d'Udekem Y, Iyengar AJ, Cochrane AD, Grigg LE, Ramsay JM, Wheaton GR, Penny DJ, Brizard CP. *Circulation*. 2007 Sep 11;116(11 Suppl):I157-64.
59. The Fontan procedure in Australia: a population-based study. Iyengar AJ, Shann F, Cochrane AD, Brizard CP, d'Udekem Y. *J Thorac Cardiovasc Surg*. 2007 Nov;134(5):1353-4.
60. Aortic translocation, Senning procedure and right ventricular outflow tract augmentation for congenitally corrected transposition, ventricular septal defect and pulmonary stenosis. Davies B, Oppido G, Wilkinson JL, Brizard CP. *Eur J Cardiothorac Surg*. 2008 May;33(5):934-6.
61. Surgical treatment of congenital mitral valve disease: midterm results of a repair-oriented policy. Oppido G, Davies B, McMullan DM, Cochrane AD, Cheung MM, d'Udekem Y, Brizard CP. *J Thorac Cardiovasc Surg*. 2008 Jun;135(6):1313-20; discussion 1320-1.
62. Initial results of primary device closure of large muscular ventricular septal defects in early infancy using perventricular access. Crossland DS, Wilkinson JL, Cochrane AD, d'Udekem Y, Brizard CP, Lane GK. *Catheter Cardiovasc Interv*. 2008 Sep 1;72(3):386-91.
63. Differences in extra-cellular matrix and myocyte homeostasis between the neonatal right ventricle in hypoplastic left heart syndrome and truncus arteriosus. Davies B, d'Udekem Y, Ukoumunne OC, Algar EM, Newgreen DF, Brizard CP. *Eur J Cardiothorac Surg*. 2008 Oct;34(4):738-44.
64. Impact of antenatal diagnosis of hypoplastic left heart syndrome on the clinical presentation and surgical outcomes: the Australian experience. Sivarajan V, Penny DJ, Filan P, Brizard C, Shekerdemian LS. *J Paediatr Child Health*. 2009 Mar;45(3):112-7.
65. Pulmonary atresia, VSD and Mapcas: repair without unifocalization. Brizard CP, Liava'a M, d'Udekem Y. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu*. 2009:139-44.
66. A technique of fenestration for extracardiac Fontan with long-term patency. Ruiz E, Guerrero R, d'Udekem Y, Brizard C. *Eur J Cardiothorac Surg*. 2009 Jul;36(1):200-2; discussion 202.
67. Extracorporeal membrane oxygenation via sternotomy for circulatory shock. Horton S, d'Udekem Y, Shann F, Butt W, Bennett M, Best D, Brizard C. *J Thorac Cardiovasc Surg*. 2008 Sep 5. [Epub ahead of print]
68. Isolated subclavian artery: anatomical and surgical considerations. Konstantinov IE, Saxena P, d'Udekem Y, Brizard CP. *Ann Thorac Surg*. 2009 Nov;88(5):1685-7.

69. Australian experience with VAD as a bridge to paediatric cardiac transplantation. Gilmore H, Millar KJ, Weintraub RG, Hislop J, Negri J, Brizard CP, d'Udekem Y. *Heart Lung Circ.* 2010 Jan;19(1):26-30. Epub 2009 Nov 13.
70. How good is a good Fontan? Quality of life and exercise capacity of Fontans without arrhythmias. d'Udekem Y, Cheung MM, Setyapranata S, Iyengar AJ, Kelly P, Buckland N, Grigg LE, Weintraub RG, Vance A, Brizard CP, Penny DJ. *Ann Thorac Surg.* 2009 Dec;88(6):1961-9.
71. Activation of platelets in young infants during cardiopulmonary bypass. Straub A, Smolich J, d'Udekem Y, Brizard C, Peter K, Horton S. *Thromb Haemost.* 2010 Feb 1;103(2):466-9. Epub 2009 Dec 18.
72. Human cord blood stem cells enhance neonatal right ventricular function in an ovine model of right ventricular training. Davies B, Elwood NJ, Li S, Cullinane F, Edwards GA, Newgreen DF, Brizard CP. *Ann Thorac Surg.* 2010 Feb;89(2):585-93. 593.e1-4
73. Moderately hypoplastic arches: do they reliably grow into adulthood after conventional coarctation repair? Liu JY, Kowalski R, Jones B, Konstantinov IE, Cheung MM, Donath S, Brizard CP, d'Udekem Y. *Interact Cardiovasc Thorac Surg.* 2010 Jan 26. [Epub ahead of print]
74. Absorbable pulmonary arterial banding. An optimal strategy for muscular or residual ventricular septal defects. Oka N, Brizard CP, Liava'a M, d'Udekem Y. *J Thorac Cardiovasc Surg.* 2010 Sep 1.
75. Improved outcomes of paediatric extracorporeal support associated with technology change. Sivarajan VB, Best D, Brizard CP, Shekerdemian LS, D'Udekem Y, Horton SB, Butt W. *Interact Cardiovasc Thorac Surg.* 2010 Oct;11(4):400-5.
76. Extended three-patch technique for congenital supra-avalvular aortic stenosis. Oka N, Liava'a M, Saxena P, d'Udekem Y, Brizard CP, Konstantinov IE. *Asian Cardiovasc Thorac Ann.* 2010 Jun;18(3):297-8.
77. Cardiac magnetic resonance imaging prior to bidirectional cavopulmonary connection in hypoplastic left heart syndrome. Jones BO, Ditchfield MR, Cahoon GD, Hardy P, d'Udekem Y, Brizard CP, Penny DJ, Cheung MM. *Heart Lung Circ.* 2010 Sep;19(9):535-40.
78. Surgical repair of aortopulmonary window associated with interrupted aortic arch: long-term outcomes. Konstantinov IE, Oka N, d'Udekem Y, Brizard CP. *J Thorac Cardiovasc Surg.* 2010 Aug;140(2):483-4.
79. Twenty-three years of single-stage end-to-side anastomosis repair of interrupted aortic arches. Hussein A, Iyengar AJ, Jones B, Donath SM, Konstantinov IE, Grigg LE, Wheaton G, Bullock A, Brizard CP, d'Udekem Y. *J Thorac Cardiovasc Surg.* 2010 Apr;139(4):942-949.
80. The option of taking down the Fontan circulation: the Melbourne experience. Iyengar AJ, Brizard CP, Konstantinov IE, d'Udekem Y. *J Thorac Cardiovasc Surg.* 2010 May;139(5):1346-8.
81. Fontan completion rate and outcomes after bidirectional cavo-pulmonary shunt. Tan AM, Iyengar AJ, Donath S, Bullock AM, Wheaton G, Grigg L, Brizard CP, d'Udekem Y. *Eur J Cardiothorac Surg.* 2010 Jul;38(1):59-65.
82. Twenty-three years of single-stage end-to-side anastomosis repair of interrupted aortic arches. Hussein A, Iyengar AJ, Jones B, Donath SM, Konstantinov IE, Grigg LE, Wheaton G, Bullock A, Brizard CP, d'Udekem Y. *J Thorac Cardiovasc Surg.* 2010 Apr;139(4):942-7
83. Surgical repair of aortopulmonary window associated with interrupted aortic arch: long-term outcomes. Konstantinov IE, Oka N, d'Udekem Y, Brizard CP. *J Thorac Cardiovasc Surg.* 2010 Aug;140(2):483-4.
84. Cardiac magnetic resonance imaging prior to bidirectional cavopulmonary connection in hypoplastic left heart syndrome. Jones BO, Ditchfield MR, Cahoon GD, Hardy P, d'Udekem Y, Brizard CP, Penny DJ, Cheung MM. *Heart Lung Circ.* 2010 (9):535-40.
85. Extended three-patch technique for congenital supra-avalvular aortic stenosis. Oka N, Liava'a M, Saxena P, d'Udekem Y, Brizard CP, Konstantinov IE. *Asian Cardiovasc Thorac Ann.* 2010 (3):297-8.

86. Improved outcomes of paediatric extracorporeal support associated with technology change. Sivarajan VB, Best D, Brizard CP, Shekerdemian LS, D'Udekem Y, Horton SB, Butt W. *Interact Cardiovasc Thorac Surg.* 2010; (4):400-5.
87. Absorbable pulmonary arterial banding: an optimal strategy for muscular or residual ventricular septal defects. Oka N, Brizard CP, Liava'a M, d'Udekem Y. *J Thorac Cardiovasc Surg.* 2011;141(4):1081-2.
88. Arterial switch operation in children with interrupted aortic arch: long-term outcomes. Fricke TA, Brizard C, d'Udekem Y, Konstantinov IE. *J Thorac Cardiovasc Surg.* 2011;141(6):1547-8.
89. Duration of resuscitation prior to rescue extracorporeal membrane oxygenation impacts outcome in children with heart disease. Sivarajan VB, Best D, Brizard CP, Shekerdemian LS, d'Udekem Y, Butt W. *Intensive Care Med.* 2011;37(5):853-60.
90. Should we always plan a Fontan completion after a Kawashima procedure? Setyapranata S, Brizard CP, Konstantinov IE, Iyengar A, Cheung M, d'Udekem Y. *Eur J Cardiothorac Surg.* 2011;40(4):1011-5.
91. The influence of bypass temperature on the systemic inflammatory response and organ injury after pediatric open surgery: a randomized trial. Stocker CF, Shekerdemian LS, Horton SB, Lee KJ, Eyres R, D'Udekem Y, Brizard CP. *J Thorac Cardiovasc Surg.* 2011;142(1):174-80.
92. Outcomes of surgery for simple total anomalous pulmonary venous drainage in neonates. Yong MS, d'Udekem Y, Robertson T, Horton S, Dronavalli M, Brizard C, Weintraub R, Shann F, Cheung M, Konstantinov IE. *Ann Thorac Surg.* 2011;91(6):1921-7.
93. Surgical repair of truncus arteriosus associated with interrupted aortic arch: long-term outcomes. Bohuta L, Hussein A, Fricke TA, d'Udekem Y, Bennett M, Brizard C, Konstantinov IE. *Ann Thorac Surg.* 2011;91(5):1473-7.
94. Changing trends in the management of pulmonary atresia with intact ventricular septum: the Melbourne experience. Liava'a M, Brooks P, Konstantinov I, Brizard C, d'Udekem Y. *Eur J Cardiothorac Surg.* 2011 Dec;40(6):1406-11.
95. Outcomes of the arterial switch operation in patients with Taussig-Bing anomaly. Soszyn N, Fricke TA, Wheaton GR, Ramsay JM, d'Udekem Y, Brizard CP, Konstantinov IE. *Ann Thorac Surg.* 2011;92(2):673-9.
96. Side-to-side aorto-GoreTex central shunt warrants central shunt patency and pulmonary arteries growth. Barozzi L, Brizard CP, Galati JC, Konstantinov IE, Bohuta L, d'Udekem Y. *Ann Thorac Surg.* 2011;92(4):1476-82.
97. Integrated Oxygenator FX05. Horton SB, Donath S, Thuys CA, Bennett MJ, Augustin SL, Horton AM, Schultz BJ, Bottrell SJ, Konstantinov I, d'Udekem Y, Brizard C. *ASAIO J.* 2011;57(6):522-6.
98. Amplitude-Integrated Electroencephalography and Brain Injury in Infants Undergoing Norwood-Type Operations. Gunn JK, Beca J, Penny DJ, Horton SB, d'Udekem YA, Brizard CP, Finucane K, Olischar M, Hunt RW, Shekerdemian LS. *Ann Thorac Surg.* 2011 Nov 8.
99. Pulmonary Atresia, Ventricular Septal Defect, and Major Aortopulmonary Collaterals: Neonatal Pulmonary Artery Rehabilitation Without Unifocalization. Liava'a M, Brizard CP, Konstantinov IE, Robertson T, Cheung MM, Weintraub R, d'Udekem Y. *Ann Thorac Surg.* 2011 Nov 23.

TEXTBOOK CHAPTERS

1. Karl TR, Cochrane AD, Brizard CP, Buxton B, Kitamura S, Frazier OH. **Coronary anomalies in children**. In: Buxton B, Frazier OH, Westaby S (eds). *Surgery for Ischaemic Heart Disease Surgical Management*. London: Mosby, 1999:261-287.
2. Karl TR, Brizard CP. **Tetralogy of Fallot**. In: Gardner TJ and Spray TL (eds). *Operative Cardiac Surgery*, 5th edition. London: Arnold, 2004:689-704.
3. Brizard CP. **Congenital anomalies of the mitral valve**. In: Selke F, Swanson S, Del Dido P (eds). *Sabiston and Spencer Surgery of the Chest* 7th edition.
4. Brizard CP. **Congenital anomalies of the mitral valve**. In: Selke F, Swanson S, Del Dido P (eds). *Sabiston and Spencer Surgery of the Chest* 8th edition.
5. Brizard CP, Penny D. **Transposition of the great arteries**. *Pediatric cardiology* 3rd edition. Anderson RH et al (eds). Churchill Livingstone.
6. A Carpentier, C Brizard. **Congenital malformation of the mitral valve**. In *Surgery for congenital heart defects*. Y Strak, M de Leval and V Tsang eds. p 573-590. Third edition. 2006 John Willey and Sons. UK
7. A Carpentier, C Brizard. **Malformations of the tricuspid valve and Ebstein's anomaly**. In *Surgery for congenital heart defects*. Y Strak, M de Leval and V Tsang eds. p 591-598. Third edition. 2006 John Willey and Sons. UK
8. Brizard C, d'Udekem Y, Alphonso N. **Valvar disease in children**. In: *The John Hopkins manual of cardiothoracic surgery*. Baumgartner B, Yuh D, Vricella L (eds). P 1301-1328. 2007, New York, McGraw-Hill.
9. Brizard C. **Mitral valve repair in children**. In: *Mastery of cardiothoracic surgery*. In Kaiser L, Kron I, Spray T (eds). Philadelphia, Lippincott Williams & Wilkins.

INVITED LECTURES TO MAJOR NATIONAL AND INTERNATIONAL MEETINGS

1. Aortic valve repair in children. C Brizard. Invited lecture to the 13th biennial congress on thoracic and cardiovascular surgery. Sydney, October 12-15, 1997
2. Aortic valve surgery in children. Invited lecture at the 4 International Congress of Cardiology and Cardiac Surgery, Beirut, October 21-24, 1998
3. Valve repair techniques in rheumatic heart disease. Invited lecture at the "End of an era Festschrift", Auckland, May 7-8, 1999.
4. Aortic valve surgery. Invited lecture at the 1999 Annual Scientific Congress, Royal Australasian College of Surgeons, Auckland, May 9-14, 1999
5. Mitral valve repair. Invited lecture to the 25th anniversary of the Philippine Heart Centre, Manila, The Philippines, February 14-15, 2000.
6. Repair of aortic valve. Invited lecture to the 8th Annual meeting of the Asian Society for Cardiovascular Surgery Fukuoka, Japan. September 6-8, 2000.
7. Fontan completion: Elective or specific indications. Invited lecture at the cardiac Society of Australia and New Zealand. Melbourne, August 7-9, 2000.
8. New approaches to mitral valve surgery. Valvular disease in Pediatrics. Invited lecture. *Cardiology* 2001, Annual Update on pediatric cardiovascular disease. Orlando, Florida USA. February 15-18, 2001

9. New aortic valves repair techniques. Valvular disease in Pediatrics. Cardiology 2001, Annual Update on pediatric cardio vascular disease. Invited lecture. Orlando, Florida USA. February 15-18, 2001
10. Tetralogy of Fallot. Optimal timing of delayed repair is anatomy dependant. Invited lecture at the Vail meeting: "Team approach to Pediatric cardiac disease" Vail, Colorado, USA, February 25-28, 2001.
11. Aortic valve repair. Invited lecture at the Vail meeting: "Team approach to Pediatric cardiac disease" Vail, Colorado, USA, February 25-28, 2001.
12. Atrioventricular valve repair in infants and children. Invited lecture at the Vail meeting: "Team approach to Pediatric cardiac disease" Vail, Colorado, USA, February 25-28, 2001.
13. Management of transposition of the great arteries. Invited lecture at the 10 th cardiology update, March 29-3, 2001. Jakarta, Indonesia
14. Mitral and aortic valves repair: New techniques and new indications. Invited lecture at the 10 th cardiology update, March 29-3, 2001. Jakarta, Indonesia
15. To Repair or to replace? Left sided valve surgery. Invited lecture at the 3rd World congress of Pediatric Cardiology and Cardiac Surgery. May 27-31, 2001. Toronto, Ontario, Canada.
16. When will surgery be required? Procedures and Outcomes. Invited lecture to the 11th world congress on ultrasound in obstetrics and gynecology. Melbourne October 23-28, 2001
17. Valve repair in pediatric practice. Invited lecture to the 4th annual conference of the pediatric cardiac society of India. March 16-17, 2002
18. Bidirectional Glenn - Definitive palliation? Invited lecture to the 4th annual conference of the pediatric cardiac society of India. March 16-17, 2002
19. Surgical management of aortic arch anomalies. Invited lecture to the 4th Heart Institute for Children (Chicago) International Symposium. Bali, May 28-30, 2002.
20. 20 Surgical strategy in pediatric aortic valve disease. Valve repair, Ross procedure and aortic valve replacement. Invited lecture to the 4th Heart Institute for Children (Chicago) International Symposium. Bali, May 28-30, 2002.
21. Repair of atrioventricular and semilunar valves. Waterston lecture. Cardiology in the Young Conference. London. April 14-16, 2003.
22. Repair of atrioventricular valves in children. Invited lecture, Cardiology in the young conference. London. April 14-16, 2003.
23. Valve repair in atrioventricular canal. Invited lecture to the 33rd Annual Meeting of the Japanese Society for Cardiovascular Surgery. Sapporo, May 14-16, 2003
24. Aortic valve repair. Invited lecture to the 33rd Annual Meeting of the Japanese Society for Cardiovascular Surgery. Sapporo, May 14-16, 2003
25. Management of HLHS in Melbourne, 1985 –2003. Invited lecture to the Cardiac Society of Australia and New Zealand. Adelaide, August 9-12, 2003.
26. Rheumatic mitral valve repair. Invited lecture to the Cardiac Society of Australia and New Zealand. Adelaide, August 9-12, 2003.
27. Surgical perspective of transcatheter mitral valve repair: Invited lecture to the 1st Annual Symposium on new interventions in transcatheter valve techniques. London, March 18-19, 2004.
28. Ross procedure. Invited lecture to the Cardiac Society of Australia and New Zealand. Brisbane, August 8-11, 2004.

29. Working Together, how can we best develop care for patients with HLHS in Australia & New Zealand? Invited lecture to the Cardiac Society of Australia and New Zealand CSANZ 2010, August 6-8, 2010
30. Invited lecture to the Japanese Association for Thoracic Surgery, Osaka, 22-26 October 2010
31. Défaillance du Fontan : que faire ? Invited lecture to “Les rencontres francophones multidisciplinaires des cardiopathies congénitales”. Bordeaux, November 26-27, 2010
32. Table ronde de médecine humanitaire. Le point de vue du chirurgien. Invited lecture to “Les rencontres francophones multidisciplinaires des cardiopathies congénitales”. Bordeaux, November 26-27, 2010
33. **6th World Congress of Pediatric Cardiology & Cardiac Surgery February 2012, Cape Town, South Africa**
 - a. Surgical strategies for the bicuspid aortic valve, Monday 18th February 2013
 - b. Intervention in congenital mitral valve lesions; a surgeon's perspective, Tuesday 19th February
 - c. Coarctation in very small neonates, Wednesday 20th of February
 - d. Surgery for Rheumatic Heart Disease, Thursday 21st February (Session Moderator)
34. **(EACTS) 26th European Association for Cardiothoracic Surgery Annual Meeting 27-31 October 2012, Barcelona, Spain**
 - a. Aortic Valve Repair in Melbourne. C Brizard (Speaker)
 - b. The Taussig-Bing anomaly: long-term results of total correction. C Brizard (Discussant)
 - c. Complex Transposition of the Great Arteries. C Brizard (Co-Moderator)
 - d. Right Ventricular Outflow tract and arch problems. C Brizard (Speaker)
 - e. Operative Techniques Training Session – Aortic Valve Repair and MAZE procedure. C Brizard
Different techniques for aortic valve repair.
35. **(ACC) The American College of Cardiology 62nd Annual Scientific Session & Expo, 9-11 March, 2013, San Francisco, California, USA.** Invited to co-chair at the “Controversies in Atrioventricular Septal Defect Management” Session.
36. **(ASCVTS) 21st Annual Meeting of the Asian Society for Cardiovascular Thoracic Surgery, 4-7 April, 2013, Kobe, Japan**
 - a. Lecture on “Neonatal Arterial Switch”. C Brizard. (Speaker) Thursday 5th April, 2013
 - b. “Shone syndrome with difficult aortic and mitral valve indication”. C Brizard (Speaker) Friday 6th April, 2013.
37. **(AATS) American Association for Thoracic Surgery Mitral Conclave, 2-3 May, 2013, Hilton New York**
 - a. “New, Modified Engineering Treatment Applied to Bovine Pericardium Confers Outstanding Resistance to Calcification with evidence of tissue regeneration in a Mitral and Pulmonary Valves Reconstruction model in juvenile sheep” – Podium Presentation.
38. **(AEPC) 47th Annual Meeting of the Association for European Paediatric and Congenital Cardiology, 22-25 May, 2013, London, England**
 - a. Treatment of Aortopathy, C Brizard, Thursday 23rd May, 2013
39. **(EACTS) 27th European Association for Cardiothoracic Surgery Annual Meeting 5-9 October, 2013, Vienna, Austria**
 - a. Postgraduate Education Session: Rheumatic and Congenital Mitral Valve Disease. C Brizard (Moderator). Sunday 6th October
 - b. Abstracts Presentation: Technical challenges of heart transplantation in children after failed univentricular Palliation. A. Iyengar, V. Sharma, R. Weintraub, A. Shipp, Y. d’Udekem, C. Brizard, I. Konstantinov; Melbourne (Australia). Monday 7th October, 2013.
 - c. Abstract Presentation: Outcomes of a rehabilitative procedure for patients with pulmonary atresia, ventricular septal defect and hypoplastic pulmonary arteries, beyond the infant period S. Li, Y. Zhang, K. Ma, Z. Hua, K. Yang, H. Zhang, Q. Chen; Beijing (China). C Brizard (Discussant) Tuesday 8th October, 2013
40. **(APPCS) The 5th Congress of Asia Pacific Pediatric Cardiac Society. 6-9th March 2014. New Delhi, India**
 - a. Chair and judge the “Best of Surgical Abstracts Session. 6th of March, 2014.

- b. Presenting talk on “Aortic Valve Repair” in the Session “What to do and what not to do!” 6th of March, 2014.
 - c. Panelist for the “Corrected TGA: Challenging case scenarios” session discussing “Case scenarios in congenitally corrected TGA and discussion. 7th of March, 2014
 - d. Presenting talk on “TOF Repair in infants: RVOT management” in the “Tetralogy of Fallot: Implications of RVOT management” Session. 8th March, 2014
 - e. Presenting talk on “Biventricular Repair in unbalanced AVSD” in the “Challenges in Surgery Session: 8th March, 2014
41. **(AATS) 94th American Association for Thoracic Surgery Annual Meeting, 26-30 April, 2014, Toronto, Ontario, Canada**
- a. Presented talk on “Management of the Symptomatic Neonate with TOF: Initial Palliation” in the Congenital Skills and Decision Making: Developing Technical Excellence Course. Saturday 26th April, 2014.
42. **(WCTB) 7th World Congress on Tissue Banking, Novotel Collins, Melbourne, 14 May, 2014**
Presented talk on “Long term data on Clinical Application of Cardiovascular tissues (Paediatric) in the Cardiovascular Session. Talking on personal clinical experience and long term data on outcomes following the use of cardiovascular tissues in paediatric indications.
43. **22nd Annual Scientific Congress of Hong Kong College of Cardiology – 6-8 June 2014.**
- a. Speaker for “Correction of Complete AVSD – Surgical Techniques and Pitfalls”. Pediatric Cardiology Symposium I. Saturday 7th June
 - b. Speaker for “Hypoplastic Left Heart Syndrome – Management Options”. Pediatric Cardiology Symposium I, Saturday 7th June, 2014

PRESENTATIONS TO SCIENTIFIC SOCIETIES

1. Réduction pharmacologique de l'oedème cérébral ischémique expérimental chez le rat. Brizard C, Julia P, Bessou JP, Chachques JC, Perrier P, Carpentier A. Presented at the 6th congress of the CECEC, Paris, June 1985
2. Management of truncus arteriosus. Brizard C, Karl TR, Wilkinson JL, Mee RB. Presented at the 27th meeting of the association of european pediatric cardiologists. Geneva May 7-10,1991
3. Trans-atrial approach in tetralogy of Fallot with anomalous coronary artery. Brizard C, Karl T, Sano S, Mee R. Presented at the 5th annual meeting of the european association for cardio-thoracic surgery. London. September 22-25, 1991
4. Correction anatomique (switch artériel) après correction atriale des transpositions des gros vaisseaux: le protocole de RBB Mee (Melbourne). Brizard C. Presented at the “14th séminaire de cardiologie pédiatrique”. Paris. March 18-20, 1992
5. Congenital mitral valve stenosis. Functional classification and conservative surgical management. Chauvaud S, Brizard C, Lamberti A, Mihaileanu S, Carpentier A. Presented at the 28th meeting of the association of european pediatric cardiologists. Berlin. April 22-26, 1992
6. Congenital mitral valve insufficiency. Functional classification and conservative surgical management. A Carpentier, C Brizard, S Chauvaud S, A Lamberti, S Mihaileanu. Presented at the 28th meeting of the association of European pediatric cardiologists. Berlin. April 22-26,1992
7. Long term results of conservative surgery for disease of the mitral valve. Chauvaud S, Brizard C, Mihaileanu S, Lamberti A, Carpentier A. Presented at the Hong Kong symposium on pediatric cardiology and pediatric surgery. Hong Kong. November 2-4, 1992
8. Congenital mitral insufficiency. Functional classification and surgical management. Chauvaud S, Iles A, Brizard C, Lamberti A, Mihaileanu S, Carpentier A. Presented at the world congress of pediatric cardiology and cardiac surgery. Paris, June 21-25 1993

9. First Year of activity of the heart institute in Ho Chi Minh City, Vietnam. C Brizard, Phan Kim Phuong, Nguyen Van Phan, Pham Nguyen Vinh, Dang Thi Baoh Yen, Nguyen Thi Thanh, Nguyen Thi Quy, A Deloche, A Carpentier. Presented at the word congress of pediatric cardiology and cardiac surgery. Paris, June 21-25,1993
10. Pulmonary bipartition with lobar transplattation: A new approach to organ shortage. JP Couetil, A Achkar, C Brizard, P Birnbaum, A Guinvarch, JP Kieffer, A Carpentier. Presented at 74th meeting of the AATS, New York, April 24-27, 1994
11. A reliable technique of aortic valve repair using cusp extension with autologous pericardium. Acar C , Brizard C, Berribi A, Grare P, Mihaileanu S, Deloche A, Carpentier A . Presented at 6th International symposium on cardiac bioprosthesis. Vancouver. July 29-31, 1994
12. Valvuloplastie mitrale chez les patients asytmatiques présentant une insuffisance mitrale. Brizard C, Farge A, Acar C, Radermaeker M, Grare P, Deloche A, Carpentier A. Presented at the Société Française de Cardiologie, Paris. May 20, 1995
13. Management strategy for truncus arteriosus. Brizard C, Cochrane A, Karl T. Presented at the 44th meeting of the cardiac society of Australia and New Zealand. Brisbane, August 4-7, 1996
14. Extracorporeal circulatory support in infants and children. Karl T, Cochrane A, Mullaly R, Horton S, Brizard C. Presented at the 44th meeting of the cardiac society of Australia and New Zealand. Brisbane, August 4-7, 1996
15. The Fontan operation: Are we doing better? Johanson S, Cochrane A, Brizard C, Karl T. Presented at the 44th meeting of the cardiac society of Australia and New Zealand. Brisbane, August 4-7, 1996
16. Is the bidirectional superior cavo-pulmonary shunt a bridge to Fontan operation? Karl T, Penny D, Cochrane A, Brizard C. Presented at the 44th meeting of the cardiac society of Australia and New Zealand. Brisbane, August 4-7, 1996
17. Management strategy for truncus arteriosus. Brizard CP, Nomura F, Austin C, Cochrane A, Karl TR. Presented at the 10th Annual Meeting European Association for Cardiothoracic Surgery. Prague, October 1996.
18. Management of univentricular connection: are we improving? Cochrane AD, Brizard CP, Johansson S, Comas J, Malm T, Karl TR. Presented at the 10th Annual Meeting European Association for Cardiothoracic Surgery. Prague, October 1996.
19. Senning and arterial switch: a good option for children with discordant (corrected) transposition. Karl TR, Weintraub RG, Cochrane AC, Brizard CP, Mee RBB. Society of Thoracic Surgeons 30th Annual Meeting, February 1997 (San Diego)
20. Etude expérimentale de la théorie hépatoprive des fistules artérioveineuses pulmonaires après dcp. C Brizard. Presented at the "18 ème séminaire de cardiologie pédiatrique de l'hôpital Necker". Paris, Mars 27-28, 1997
21. Does LVOTO influence outcome of IAA repair. J Fulton, C Brizard, A Cochrane, T Karl. Presented at the 13th biennial Asian congress on thoracic and cardiovascular surgery. Sydney, October 12-15, 1997
22. VAD in children < 6 kg. Thuys C, Mullaly RJM, Karl TR, Brizard CP. Presented at the 11th Annual Meeting European Association for Cardiothoracic Surgery. Copenhagen, September 1997.
23. Transatrial-transpulmonary tetralogy repair is effective in the presence of anomalous coronaries. C Brizard, A Cochrane, T Karl. Presented at 78th meeting of the AATS, Boston, May 3-6, 1998
24. Excellent long-term functional outcome after surgery for anomalous left coronary artery from the pulmonary artery. A Cochrane, Coleman D, C Brizard, T Karl. Presented at 78th meeting of the AATS, Boston, May 3-6, 1998

25. Fontan outcome in complex biventricular hearts not suitable for septation. A Maizza, C Brizard, A Cochrane, T Karl. Presented at 12th meeting of the EACTS, Brussels, September 21-23, 1998
26. Semilunar valve size and function after the arterial switch operation. Kalandadze P, Mas C, Colan S, Cochrane A, Brizard C, Karl T. Presented at the AHA 71st Scientific Sessions, Dallas, November 1998.
27. Fontan procedure in complex biventricular hearts not candidate for septation. Presented at the 7th Annual meeting of the Asian Society for Cardiovascular Surgery. Singapore, May 29-June 1, 1999
28. Aortic valve repair. Brizard C. Presented at the movie session, Society of Thoracic Surgeons 36th Annual Meeting, February 2000 (Fort Lauderdale)
29. Repair Of Recurrent Left Atrio-Ventricular Valve Regurgitation: Beyond Cleft Closure. Brizard CP, Karl TR, Cochrane AD. Presented at the Cardiac Society of Australia and New Zealand. Melbourne, August 8-11, 2001.
30. Evaluation of long term outcome after repair of complete atrio-ventricular septal defect associated with hypoplastic left lateral leaflet and single papillary muscle. Kaushal SK, Cochrane AD, Karl TR, Brizard CP. Presented at the 3rd World congress of Pediatric Cardiology and Cardiac Surgery. May 27-31, 2001. Toronto, Ontario, Canada.
31. Is there a predictive factor for long-term tolerance of bidirectional cavopulmonary connection? El Rassi I, Cochrane AD, Karl TR, Brizard CP. Presented at the 3rd World congress of Pediatric Cardiology and Cardiac Surgery. May 27-31, 2001. Toronto, Ontario, Canada.
32. Repair of recurrent left atrio-ventricular valve regurgitation: Construction of a coaptation surface. Brizard CP, Kaushal SK, Cochrane AD, Karl TR. Presented at 81st meeting of the AATS, San Diego, May 6-9, 2001.
33. Arterial Switch and neurodevelopmental outcome: Full flow CPB with limited circulatory arrest. Karl TR, Ford G, Kelly E, Mee RB, Weintraub R, Brizard CP, Cochrane AD, Hall S. Presented at 81st meeting of the AATS, San Diego, May 6-9, 2001.
34. Long term results of ventricular reconditioning and anatomical correction for systemic right ventricular dysfunction following atrial switch procedure. Poirier NC, Yu J-H, Brizard CP, Mee RB. Presented at 82nd meeting of the AATS, Washington, May 5-8, 2002.
35. Late morbidity after Fontan surgery. Marwah A, Wilkinson J, Kim NS, Penny D, Brizard C, Cochrane A. Presented at 14th world congress of Cardiology, Sydney, May 5-9, 2002.
36. Congenital mitral stenosis: Are we beating the odds? Soto R, Alaskari S, Penny D, Cochrane A, Brizard C. Presented at Society of Thoracic Surgeons 39rd Annual Meeting, San Diego. January 31 February 2, 2003.
37. New approach to multiple ventricular septal defects closure using intra-operative echo and double patches sandwiching the septum. Brizard CP, Olsson C, Wilkinson JL. Presented at 83rd meeting of the AATS, Boston, May 4-7, 2003.
38. A New Aortic Valve Reconstruction Technique For Bicuspid Aortic Valve In Children. Kawahira Y, Penny D, Brizard C. Presented at the Society of Thoracic Surgeons 40th Annual Meeting, San Antonio. January 27 & 28, 2004
39. Intra-operative device closure of large muscular ventricular septal defects in early infancy without cardiopulmonary bypass. Wilkinson J, Lane J, Cochrane A, Soto R, Brizard C. Presented at 52nd meeting of the Cardiac Society of Australia and New Zealand. Brisbane, August 7-11, 2001.
40. Repair of coarctation of the aorta in infants weighing less than 2 kilograms. A Cochrane, Sudarshan C, Jun Z, Soto R, Brizard C. Presented at 52nd meeting of the Cardiac Society of Australia and New Zealand. Brisbane, August 7-11, 2001
41. High-vacuum redivac drains rival conventional underwater- sealed drains after pediatric heart surgery. Newcomb A E, Alphonso N, Cochrane AD, Nørgaard MA, Karl TR, Brizard CP. To be presented at the 3rd EACTS/ESTS Joint Meeting - September 12-15, 2004 - Leipzig Germany

42. Body temperature does not influence the systemic inflammatory response to cardiopulmonary bypass in children. Stocker C, Shekerdemian L, Horton S, Penny D, Visvanathan K, Cochrane A, d'Udekem Y, Brizard CP. To be presented at the 3rd EACTS/ESTS Joint Meeting - September 12-15, 2004 - Leipzig Germany
43. The innate immune response is not influenced by bypass temperature in pediatric open heart surgery. CF Stocker, DJ Penny, LS Shekerdemian, K Visvanathan, Y d'Udekem, AD Cochrane, SB Horton, CP Brizard. To be presented at the 15th meeting of the European Society of Pediatric and Neonatal Intensive Care, September 16-18, 2004 London
44. Aortic insufficiency and VSD. AATS Sunday 10th of April 2005 San Francisco

SYMPOSIUM CHAPTERS, PUBLISHED ABSTRACTS

1. Management strategy for truncus arteriosus. Brizard CP, Cochrane AD, Karl TR. Aust NZ J of Med, 1997;27:103
2. Extracorporeal circulatory support in infants and children. Karl TR, Cochrane AD, Mullaly R, Horton S, Brizard CP. Aust NZ J of Med, 1997;27:104
3. The Fontan operation: are we doing better? Johansson S, Cochrane AD, Brizard CP, Karl TR. Aust NZ J of Med, 1997;27:104
4. Is the bidirectional superior cavopulmonary shunt (BSCPS) a bridge to Fontan operation? Karl TR, Penny D, Cochrane AD, Brizard CP. Aust NZ J of Med, 1997;27:104
5. Semilunar valve size and function after the arterial switch operation. Kalandadze P, Mas C, Colan S, Cochrane A, Brizard C, Karl T. Circulation. 1998;98(Suppl):I-186
6. Mitral valve repair in 875 young patients with rheumatic mitral valve regurgitation. Deloche A, Berribi A, Chauvaud S, Brizard C, Filsoufi R, Phan KP, D'Attelis N, Loulmet D, Carpentier A. In: Imai Y and Momma K, eds. Proceedings of the second world congress of pediatric cardiology and cardiac surgery. New York: Futura Publishing, 1998:386
7. Mitral valve repair for mitral regurgitation in pediatric patients: Five-year retrospective study. Nguyen VP, Phan KP, Pham NV, Dao HT, Nguyen MTV, Dang TTA, Ho HQT, Brizard C, Deloche A, Carpentier A. In: Imai Y and Momma K, eds. Proceedings of the second world congress of pediatric cardiology and cardiac surgery. New York: Futura Publishing, 1998:387-8
8. Aortic valve repair for rheumatic aortic insufficiency in young patients. Deloche A, Acar C, Brizard C, Berribi A, Chauvaud S, Loulmet D, Nguyen VP, Carpentier A. In: Imai Y and Momma K, eds. Proceedings of the second world congress of pediatric cardiology and cardiac surgery. New York: Futura Publishing, 1998:508
9. Arterial switch for transposition with left ventricular outflow tract obstruction. Karl TR, Yemets I, Brizard C, Cochrane A. In: Imai Y and Momma K, eds. Proceedings of the second world congress of pediatric cardiology and cardiac surgery. New York: Futura Publishing, 1998:943-5
10. Intramural coronaries in transposition of the great arteries: Result of the arterial switch operation. Soto R, Brizard C, Cochrane A, Karl T. In: Imai Y and Momma K, eds. Proceedings of the second world congress of pediatric cardiology and cardiac surgery. New York: Futura Publishing, 1998:950-2
11. Effect of strategic and technical modification on Fontan outcome. Karl T, Cochrane A, Brizard C, Penny DJ. In: Imai Y and Momma K, eds. Proceedings of the second world congress of pediatric cardiology and cardiac surgery. New York: Futura Publishing, 1998:1016-19

12. Ventricular assist device for low cardiac output: The Melbourne experience. Soto R, Mullaly R, Brizard C, Cochrane A, Horton S, Karl T. In: Imai Y and Momma K, eds. Proceedings of the second world congress of pediatric cardiology and cardiac surgery. New York: Futura Publishing, 1998:1069-71
13. International pediatric ventricular assist device registry. Mullaly RJ, Cochrane AD, Brizard CP, Horton SB, O'Connor EB, Thuys CA, Karl TR. In: Imai Y and Momma K, eds. Proceedings of the second world congress of pediatric cardiology and cardiac surgery. New York: Futura Publishing, 1998:1072-73
14. Evaluation of the long-term surgical outcome after repair of complete atrioventricular septal defect associated with hypoplastic left lateral leaflet and single papillary muscle. Kaushal SK, Cochrane AD, Karl TR, Brizard CP. Abstracts of the third world congress of pediatric cardiology and cardiac surgery. *Cardiology in the Young*. 2001;11(Suppl 1):29.
15. Is there a predictive factor for the long-term tolerance of bi-directional cavo-pulmonary connection. El-Rassi I, Cochrane A, Karl TR, Brizard C. Abstracts of the third world congress of pediatric cardiology and cardiac surgery. *Cardiology in the Young*. 2001;11(Suppl 1):29.
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THE CLINICAL ACTIVITY AND ACHIEVEMENTS OF THE CARDIAC SURGERY UNIT AT RCH, MELBOURNE

When I became in charge of the Unit in 1999, my primary mission was to maintain and enhance the clinical repute of the unit. In ten years, I have increased the number of open-heart procedures from 350 per year to more than 530 now. I have established the unit as a world leader in the field of pediatric heart valve surgery. I have developed surgery for Hypoplastic Left Heart Syndrome to a level never attained before by my predecessors. We treat between 15 and 20 patients a year and now have the best three months survival in the world. In January 2011 we have been granted the *nationally funded centre* (NFC) status for hypoplastic left heart syndrome by the joint conference of State Health Ministers of Australia. We have been granted this similar nationally funded centre status for pediatric cardiac transplantation in 1991 and have maintained this status at each three yearly review ever since. We do between 10 and 14 transplantations per year. We have developed in parallel with the transplantation activity a small program for Ventricular Assist Device using the Berlin Heart. We treat an average of 4 patients a year. I have maintained the quality of the results and the numbers in the fields for which the Unit had significant reputation before I took responsibility: Transposition of the great arteries, Tetralogy of Fallot, Atrioventricular septal defect. Our program for univentricular hearts is backed by very strong clinical and experimental research. We have less than one percent mortality for the last 16 years for Fontan completion. We have initiated a national Fontan registry in which all patients from Australia and New Zealand are enrolled.

I have recruited two surgeons since 2003. Dr Yves d'Udekem, MD PhD and Dr Igor Konstantinov, MD PhD

During that time, I have maintained the presence of the RCH at the most important meeting in our field namely The American Association for Thoracic Surgery, the Society of Thoracic Surgeon and The European Association for Thoracic and Cardiovascular Surgery.

THE AUSTRALIA AND NEW ZEALAND CHILDREN HEART RESEARCH CENTRE

The Cardiac Surgery Unit has held a very important international clinical reputation since the years of Dr Mee. This was achieved with an academic throughput mainly made of clinical retrospective studies. Ever since I came to the Royal Children's Hospital in 1995, I knew that the Unit was lacking proper research facilities and dynamic research program.

When I became in charge of the Unit in 1999, however, my primary mission was to maintain and enhance the clinical reputation of the unit.

Research again became a priority as soon as I had time to invest. The Australia and New Zealand Children's Research Heart Centre was created in November 2002. I am a founding member and co-director with Pr Dan Penny. It was a collaboration between the Murdoch and Children Research Institute, The Royal Children's Hospital, the Department of Cardiology and the Cardiac Surgery Unit.

The purpose is to initiate promote and develop research into any areas of pediatric cardiac surgery and cardiology, under the auspices of our department, at a local and national level. The center is endorsed by the Cardiac Society of Australia and New Zealand, which has a representative to the board and the scientific committee. Seven years after its creation the center has evolved. We now host two full time post doc scientists and currently have three PhD students. The themes where the cardiac surgery department is involved are:

- Neurodevelopment in patients with congenital heart disease
- Utilization of chord stem cells in congenital heart disease
- Remote ischemic preconditioning
- Clinical research: Fontan circulation, aortic arch surgery
- Computer model of fetal circulation

In 2010, the ANZCHRC was dismantled and transformed into Heart Research at MCRI. The change mostly concerns the funding structure which now relies almost exclusively on successful grants with no direct contribution from the MCRI and RCH.

INTERNATIONAL ACTIVITIES

Creation of Cardiac Surgery Unit Overseas (Conception, Establishment and Training)

Since the very beginning of my career in cardiac surgery, I have been actively involved in the establishment of cardiac surgery units in Viet Nam.

The Ho Chi Minh City Heart Institute.

The Ho Chi Minh City Heart Institute (Vien Tim) is dedicated to Cardiac Surgery and more specifically to pediatric patients. The health authorities of South Viet Nam approached Pr Alain Carpentier in 1989. With the joint efforts of the Alain Carpentier Foundation, the Assistance Publique-Hôpitaux de Paris, Pr Carpentier himself and many other individuals, the hospital was designed, erected and equipped in 2 years. During that period, the surgical and medical teams were trained in Paris.

Pr Carpentier asked me to be responsible for the training in congenital cardiac surgery and valve surgery of the two surgeons Phan Kim Phuong and Nguyen Van Phan.

The first patient was operated on in January 1992. That year, I spent 5 months at the Institute in two stays, supervising the surgery, overlooking the cardiology clinics, verifying the surgical indications, assuming a large part of the intensive care, ordering the maintenance. During these five months despite tremendous difficulties, the surgical results were outstanding. Dr Phuong and Dr Phan and the whole team gained significant confidence. Pr Phuong is now the director of the Institute and Dr Phan is the clinical supervisor of the surgical program

The following years, I have continued to spend 4 to 6 weeks per year. The pace of the Institute has accelerated greatly from 400 patients the first year to more than 1500 in now. The hospital mortality is less than 3 % and 60 % of the patients belong to the pediatric age group. The hospital is independent and does not impinge on the public budget of the South Viet Nam region. It has the largest series of rheumatic mitral valve repair in the world. More than one thousand patients with Tetralogy of Fallot have been repaired. A program specifically developed towards the neonatal treatment of TGA and infant VSD is being put in place with the assistance of the cardiac surgery unit at the RCH. We have trained in Melbourne two surgeons of the heart Institute: Dr Nguyen Phan Vien who is now the deputy Head of the Institute and Dr Minh Nhut Pham

I am now a member of the board of hospital. My clinical role is reduced to supervision. The board generates the strategy and receives the financial reports. In the last two years, the board has supervised the construction of a new hospital.

After 18 years, the Institute is one of the only successful examples in its field of transfer of knowledge between developed and developing country. It is unique by its scale.

The Cardiac Surgery Unit in Hué Central Hospital

Atlantic Philanthropies is an American philanthropic enterprise created by Chuck Feeney. They are very involved in Viet Nam, and are also helping considerably the RCH, Melbourne. AP recognized the importance of the Ho Chi Minh City Heart Institute experience and has asked us to organize the training of the surgical team for the cardiac surgery center they finance in Hué, central VN. We have organized and supervised the training of adult and pediatric cardiac teams. This was done through a network of collaboration between the Royal North Shore Hospital in Sydney for the training of one adult surgeon, two intensivists and one cardiologist. At the Royal Children's Hospital in Melbourne we have trained one pediatric surgeon, one cardiologist, six intensive care nurses and two perfusionists. In the Heart Institute in Saigon, we have trained 25 ICU nurses and several junior cardiologists and surgeons. The administrative staff was trained at the Ecole Nationale de Santé in Rennes, France. The cardiac surgery activity in Hué has begun in the new facilities two years ago, in 2008 and is now about one thousand patients a year. Dr Luong Tan Nguyen is the director of the Pediatric cardiac surgery program.

Other Medical Experiences:

- November 1992. Evaluation of the cardiac services in the Central Hospital, Rangoon, Myanmar.
On behalf of the French MOFA.
This mission was targeted at establishing long-term cooperation in the field of Cardiology and Cardiac Surgery.
- February 2003 Report to the health authorities in Singapore.
Advice towards the reorganization of the Paediatric Cardiac Surgery in Singapore.

Overseas surgical missions 1992 to now

In addition to my experiences in Saigon where in total I have spent more than 18 months, I have participated to and/or organized numerous surgical missions overseas. This was either as a member of Médecins du Monde or as a member of the Chain of Hope.

These overseas missions included visits to Tunisia, Gabon, Indonesia, Philippines, Kenya, Hong Kong, China and Mongolia.

PRESS AND MEDIA COVERAGE

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