

**CURRICULUM VITAE**

**Dr Johann Brink**

**IDENTIFICATION:**

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Fluent Languages: English, Afrikaans, Tswana, Sotho

**CURRENT EMPLOYMENT:**

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1<sup>st</sup> June 2015: Consultant Cardiac Surgeon, Cardiac Surgery Unit, The Royal Children's Hospital, Melbourne, Australia

**QUALIFICATIONS**

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**Primary Medical Qualification**

2000 Bachelor of Medicine and Bachelor of Surgery  
University of the Orange Free State, South Africa

**Specialist Qualification**

2009 Magister in Medicine Cardiothoracic Surgery (MMED)  
University of the Free State, South Africa

**Additional Qualifications**

2009 Libero Fatti Medal - Fellowship of the College of Cardiothoracic Surgeons of South Africa  
Colleges of Medicine South Africa, South Africa

2015 Fellow of the Royal Australasian Colleges of Surgeons  
**Specialist Bridging Program** - IMG Specialist assessment by The Royal Australasian College of Surgeons. Successfully completed RACS assessment on 31/01/2015.

**Current & All Previous Medical Licensing Authorities**

2000-2015 Full Registration Health Professions Council of South Africa MP0533661

2003-2015 Full Registration as Medical Practitioner with the General Medical Council, United Kingdom 6053671

2010-2015 Australian Health Practitioner Regulation Agency, Specialist in Cardiothoracic Surgery MED0001585584

**MEMBERSHIPS OF PROFESSIONAL ORGANISATIONS**

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2000-2015 Member of Medical Indemnity Protection Society M900047768

2009-2015 College of Cardiothoracic Surgeons of South Africa

2010-2015 Fellow of the Royal Australasian College of Surgeons 164742

## PREVIOUS APPOINTMENTS / EMPLOYMENT

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5/5/2014 – 5/5/2015	Senior Fellow The Alfred Health, Melbourne, Australia
10/01/2013 – 1/5/2014	Senior Fellow The Royal Children’s Hospital, Melbourne, Australia
01/08/2012-31/12/2012	Senior Specialist Consultant Cardio-Thoracic Surgery Universitas Hospital, Bloemfontein, South Africa Free State Health Department/University of the Free State
11/2010-06/2012	Surgical Fellow The Royal Children’s Hospital, Melbourne, Australia
07/2009-10/2010	Junior Consultant Surgeon Walter Sisulu Paediatric Cardiac Centre for Africa, Sunninghill Hospital Johannesburg, South Africa
04/2004-07/2009	Registrar University of the Free State/Universitas Hospital, Bloemfontein, South Africa
01/2004-03/2004	Registrar General Surgery Pretoria Academic Hospital, Gauteng, South Africa
11/2003-12/2003	Locum-Senior house officer Obstetrics and gynaecology Sunderland Royal Hospital Kayll Road, Sunderland, United Kingdom
03/2003-11/2003	Medical officer Johannesburg General Hospital, Gauteng, South Africa
06/2002-03/2003	Locum Senior House Officer National Health Service United Kingdom
01/2002-06/2002	Medical Officer Senekal Hospital, Senekal, Free State, South Africa
01/2001-12/2001	Internship Mapulaneng Hospital, Bushbuckridge, Mpumalanga, South Africa

## TRAINING

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### Certificates & Courses

2001	Course in Forensic Medicine
2001	Basic Life Support
2001	Advanced Cardiac Life Support
2001	Advanced Paediatric Life Support
2001	International English Language Test System
2003	FCS (SA) Primary
2004	Advanced Trauma Life Support (Trauma instructor)
2005	MMED Intermediate (Intensive care and Trauma)- University of the Free State, Bloemfontein, South Africa
2006	Wetlab - Mitral Valve Repair by Prof. Robert Frater, Bloemfontein South Africa
2007	Wetlab - Aortic Valve Repair by Prof. Robert Frater Bloemfontein, South Africa
2007	“Writing of a protocol” Research course presented by Department Biostatistics, University of The Free State, South Africa
2009	Contegra Training Course, Hanover, Germany
2009 - 2010	Fellowship Congenital Cardiac Surgery - Sunninghill Hospital, Johannesburg, South Africa

2010	International English Language Test System
2010 - 2012	Fellowship Congenital Cardiac Surgery, The Royal Children's Hospital, Melbourne, Australia
2013 - 2014	Fellowship Congenital Cardiac Surgery, The Royal Children's Hospital, Melbourne, Australia
2014	Wetlab - Insertion of Sutureless Aortic Valve- The Alfred, Melbourne
2014	Heartware VAD workshop, The Alfred, Melbourne
2014	Heartmate III VAD workshop, The Alfred, Melbourne
2015	Aortic homograft insertion Wetlab, The Alfred, Melbourne
2014 - 2015	Fellowship in Cardio-Thoracic surgery, The Alfred, Melbourne
2015	International English Language Test System

## **NON-HUMANITARIAN MISSIONS AND SURGICAL TRAINING- 2013-2015**

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I undertake surgical missions organized by the **Heartbeat** foundation to Hospital Hotel- Dieu de France, Beirut, Lebanon. Children with congenital heart disease are recruited from a number of countries in the Middle East (including Syria, Turkey, Afghanistan, Iraq etc.). They are then operated upon in Beirut and transferred to their country of origin after recovery.

## **STUDENT SUPERVISION**

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2016	Ben Hobbes (MDRP) – title: Long-Term Outcomes of Systemic-to-Pulmonary Artery Shunts at The Royal Children's Hospital (The Melbourne Experience 2004-2014)
2017	Tomislav Santro (MDRP) – title: Long Term Outcomes of systemic to pulmonary shunts at The Royal Children's Hospital.
2017	Alice Parker (MDRP) – title: Long-Term Outcomes following paediatric heart transplantation at The Royal Children's Hospital.
2018	Laura Davis (MDRP) – title: Long-Term Outcomes of durable circulatory support at The Royal Children's Hospital.
2018	Leon Rothberg (MDRP)

## **CONFERENCE ATTENDANCE AND PRESENTATION**

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### **2006**

#### **Speaker**

Stroke after Cardiac Surgery

*SA Heart Association annual meeting- Cape Town, South Africa*

#### **Speaker**

Pre-operative Assessment of the Thoracic patient

*Hannes Meyer Registrar Symposium, Bloemfontein, South Africa*

### **2007**

#### **Speaker**

Mitral Valve Surgery in Ischemic Mitral Regurgitation

*Hannes Meyer Registrar Symposium, Bloemfontein, South Africa*

### **2008**

#### **Speaker**

The Double Outlet Right Ventricle - The Morphogenic Monster

*Hannes Meyer Registrar Symposium, Bloemfontein, South Africa*

Walter Sisulu Paediatric Cardiac Centre for Africa- International Symposium, Johannesburg, South Africa

#### **Speaker**

Diagnostic Considerations in Advanced Pulmonary Hypertension

*SA Heart Association annual meeting- Sun City, South Africa*

**2009**

**Speaker**

SA Heart Society - Sun City, South Africa

The Solitary Pulmonary Nodule

*Hannes Meyer Registrar Symposium, Cape Town, South Africa*

**2010**

**Speaker**

1.The Unpredictable Absent Pulmonary Valve Syndrome

2.The Infant/neonatal PFO: "To close or not to close"

*Walter Sisulu Paediatric Cardiac Centre for Africa, International Symposium, Johannesburg, South Africa*

**2013**

CSANZ Annual Scientific meeting 2013, Gold Coast, Australia

Non-humanitarian missions and provision of surgical training, Hospital Hotel- Dieu de France, Beirut, Lebanon

**2015**

**Invited guest Speaker**

Lectures and surgical training wetlab for junior medical trainees- The Alfred Health, Melbourne

Surgical Management of Congenital Sub-Aortic Stenosis

*BIT 7<sup>th</sup> Annual International Congress of Cardiology – Shanghai, China 2015*

**2017**

**Invited Speaker**

*The 25<sup>th</sup> Annual Meeting of the Asian Society of Cardiovascular and Thoracic Surgery. Mar 23-26. 2017. Seoul, Korea*

Title: The Melbourne experience with Berlin Heart: A Regional Centre Experience

**2017**

**Speaker**

*The 54<sup>th</sup> Annual Meeting of the Society of Thoracic Surgeons (STS). Jan 21-25 2017. Houston, TX, USA.*

Abstract selected for presentation in the Congenital Session. Paediatric Congenital I. Title: Determinants of Adverse Outcomes after Systemic-to-Pulmonary shunts in Bi-Ventricular Circulation: The Melbourne Experience 2004-2014.

**2017**

**Invited Speaker**

*The 27<sup>th</sup> Annual Congress of the Association of Thoracic and Cardiovascular Surgeons of Asia. Nov 17-19 2017. Melb, Aust.*

Abstract selected for presentation title: Cost of paediatric heart transplantation in Australia.

**2017**

**Invited Speaker**

*The 27<sup>th</sup> Annual Congress of the Association of Thoracic and Cardiovascular Surgeons of Asia. Nov 17-19 2017. Melb, Aust.*

Abstract selected for presentation title: Quality-of-life in adult survivors after paediatric heart transplantation in Australia.

**2018**

**Speaker**

The 98<sup>th</sup> Annual Meeting of the American Association for Thoracic Surgery (AATS), April 28 to May 1, 2018, San Diego California.

Abstract selected for presentation title: Determinants of Acute Events Leading to Mortality After Shunt Procedure in Univentricular Palliation

**AUDITS / PUBLICATIONS AND RESEARCH EXPERIENCE**

2006	Stroke after Cardiac Surgery October 2006, Vol.96, No.10 SAMJ W de Vries, <b>Johann Brink</b> - published abstract (Evaluating outcomes regarding stroke after cardiac surgery)
2007	Limitations in Pre-operative Assessment of Pulmonary Hypertension FE Smit, <b>J Brink</b> SAMJ 2007;97:11 SA Heart Association Annual Meeting- Sun City, South Africa
2008	<b>Audit</b> Diagnostic Considerations in Advanced Pulmonary Hypertension (Evaluating outcomes of high risk VSD and AVSD repair in the view of pulmonary hypertension)
2008	Data collection for a PhD. (Prof Linegar) - Development of Thoracic surgery in the Free State and Central South Africa
2008	<b>Clinical study</b> Endothelial Research Project- Evaluating endothelial response after OPCAB and conventional CABG- Coronary Artery Surgery in patients presenting with Acute Coronary Artery Syndrome <i>Universitas Hospital Bloemfontein, South Africa</i>
2008	<b>Animal Research</b> Homograft implantation in 20 sheep - The effect of pre-harvest ischemic time on valvular homograft performance – experimental study- Bloemfontein, South Africa
2009	Development of The National South African Heart Association Database (Cardiac Surgery National Database and Thoracic Surgery National Database
2009	The Problem of the Solitary Pulmonary Nodule SA Resp J 2009;15(2)46-49 <b>Brink J</b> Linegar A
2010	Primary Arterial Switch Operation for Transposition of the Great Arteries with Intact Ventricular Septum – is it safe after three weeks of age? Interact CardioVasc Thorac Surg (2010) 11 (5): 641-644 Frank Edwina, Hendrick Mamorare, <b>Johann Brink</b> and Robin Kinsley
2010	Late Primary Arterial Switch for Transposition of the Great Arteries With Intact Ventricular Septum in an African Population World Journal for Paediatric and Congenital Heart Surgery April 2011 vol. 2 no. 2 237-242 Frank Edwin, MD, Robin H. Kinsley, MD, <b>Johann Brink</b> , MD, Greg Martin, MD, Hendrick Mamorare, MD, Peter Colsen, MD
2011	<b>Book Chapter- First Author</b> Dawn and Evolution of Cardiac Procedures The History of Research on Adult and Paediatric Heart Transplantation <b>Brink J</b> , d'Udekem Y
2012	Complications of Extra-Anatomic Aortic Bypass for Complex Coarctation and Aortic Arch Hypoplasia. <b>Brink J</b> , Lee MG, Konstantinov IE, Cheung MM, Goh TH, Bennett M, Brizard CP, d'Udekem Y. Ann Thorac Surg. 2013 Feb; 95(2):676-81
2012	<b>Animal research</b> Being part of another sheep project, I implanted specially treated ADAPT pericardium ( <b>Cardiocel</b> ) in the pulmonary valve and posterior mitral valve position in 10 sheep. Abstract presented for AATS annual meeting 2013, Werribee, Australia
2013	Slide Tracheoplasty With Concomitant Aortic Arch Repair in a Low-Weight Neonate <b>Johann Brink</b> , MD, Yves d'Udekem, MD, PhD, Igor E. Konstantinov, MD, PhD. Ann Thorac Surg March 2014, Volume 97, Issue 3, page 1057-1059
2013	<b>Book Chapter - First author</b> Pediatric and Congenital Cardiology, Cardiac Surgery and Intensive Care Sub-Aortic stenosis <b>Johann Brink</b> , Christian Brizard DOI 10.1007/978-1-4471-4619-3_24, # Springer-Verlag London 2013

2013	<p><b>Poster presentation</b>  Resection of the Giant Left Atrium in Mitral Valve Disease Khrishna Bhagwat, <b>Johann Brink</b>, Igor Konstantinov, Christian Brizard  <i>ANZSCTS Annual Scientific meeting, Darwin, August</i></p>
2013	<p><b>Poster presentation</b>  Multiple Cannulation Strategies for Extra Corporeal Membrane Oxygenation  <i>Conference of APELSO Beijing, October</i></p>
2014	<p><b>Poster presentation</b>  Neonatal Pulmonary Artery Reconstruction During Shunting to Treat and Prevent Juxta-ductal Coarctation  <b>Johann Brink</b>, Robroy MacIver, Melissa G.Y Lee, Igor Konstantinov, Michael Cheung, Christian P Brizard, Yves d' Udekem  <i>STS 50th Annual Meeting; Orlando, Florida; January 25-29</i></p>
2014	<p><b>Poster presentation</b>  The end-to-side technique of repair for aortic arch offers excellent chances of growth to adulthood without reoperation  Lee MG, <b>Brink J</b>, Galati JC, Rakhra SS, Konstantinov IE, Cheung MM, Brizard CP, d'Udekem Y  <i>STS 50th Annual Meeting; Orlando, Florida; January 25-29</i></p>
2014	<p>New engineering treatment of bovine pericardium confers outstanding resistance to calcification in mitral and pulmonary implantations in a juvenile sheep model.  Brizard CP, <b>Brink J</b>, Horton SB, Edwards GA, Galati JC, Neethling WM. <i>J Thorac Cardiovasc Surg.</i> 2014 Dec;148(6):3194-201</p>
2014	<p>Neonatal Pulmonary Artery Reconstruction during shunting to treat and prevent juxtaductal coarctation.  <b>Brink J</b>, MacIver R, Lee MG, Konstantinov IE, Cheung M, Brizard CP, d'Udekem. <i>Ann Thorac Surg.</i> 2015 Feb;99(2):641-7.</p>
2014	<p>Surgery for Scimitar Syndrome: the Melbourne experience.  <b>Brink J</b>, Yong MS, d'Udekem Y, Weintraub RG, Brizard CP, Konstantinov IE. <i>Interact Cardiovasc Thorac Surg.</i> 2015 Jan;20(1):31-4.</p>
2014	<p>End-to-side repair for aortic arch lesions offers excellent chances to reach adulthood without reoperation.  Lee MG, <b>Brink J</b>, Galati JC, Rakhra SS, Konstantinov IE, Cheung MM, Brizard CP, d'Udekem Y. <i>Ann Thorac Surg.</i> 2014Oct;98(4):1405-11.</p>
2014	<p>Resection of the Giant Left Atrium in Mitral Valve disease. (Abstract)  Bhagwat K, <b>Brink J</b>, Konstantinov IE, Jones B, Brizard C. <i>Heart Lung Circ</i> DOI: 10.10116/j.hlc.2013.10.051</p>
2015	<p>Right ventricular reconstruction after resection of cardiac fibroma.  Yong MS, <b>Brink J</b>, Zimmet AD. <i>J Card Surg.</i> 2015 Aug;30(8):640-2.</p>
2016	<p>Pulmonary Artery Reconstruction with Donor Aortic Homograft During Cardiac Transplantation in the Failed Fontan Circulation.  <b>Brink J</b>, Saxena P, Yong MS, McGiffin D. <i>J Card Surg.</i> 2016 Jan;31(1):65-8.</p>
2016	<p><b>Editorial</b>  So, Vegetation Size in Right-Sided Endocarditis does not Matter, or does it?  <b>Brink J</b>, d'Udekem Y. <i>Heart Lung Circ.</i> 2016 May;25(5):419-20.</p>
2017	<p>Achievements and Limitations of a Strategy of Rehabilitation of Native Pulmonary Vessels in Pulmonary Atresia, Ventricular Septal Defect and Major Aortopulmonary Collateral Arteries.  Soquet J, Liava'a M, Eastaugh L, Konstantinov IE, <b>Brink J</b>, Brizard CP, d'Udekem Y. <i>Ann Thorac Surg.</i> 2017 May;103(5):151-1526.</p>
2017	<p>Absorbable pulmonary artery banding: a strategy for reducing reoperations.  Daley M, Brizard CP, Konstantinov, <b>Brink J</b>, Jones B, d'Udekem Y. <i>Eur J Cardiothorac Surg.</i> 2017 Apr 1:51(4):735-739.</p>
2017	<p>Long-term results of anatomic correction for congenitally corrected transposition of the great arteries: A 19-year experience.  Brizard CP, Lee A, Zannino D, Davis AM, Fricke TA, d'Udekem Y, Konstantinov IE, <b>Brink J</b>, Cheung MM. <i>J Thorac Cardiovasc Surg.</i> 2017 Jul;154(1):256-265.</p>
2017	<p>The ordeal of left atrioventricular valve replacement in children under 1 year of age.  Sawan EB, <b>Brink J</b>, Soquet J, Liava'a M, Brizard CP, Konstantinov IE, d'Udekem Y. <i>Interact Cardiovasc Thorac Surg.</i> 2017 Aug 1;25(2):317-322.</p>
2017	<p>Determinants of Adverse Outcomes After Systemic-To-Pulmonary Shunts in Bi-Ventricular Circulation: The Melbourne Experience 2004-2014.  Hobbes B, d'Udekem Y, Zannino D, Konstantinov IE, Brizard CP, <b>Brink J</b>. <i>Ann Thorac Surg</i> 2017</p>

	Oct;104(4):1365-1370.
2017	Impact of arch reobstruction and early hypertension on late hypertension after coarctation repair. Lee MGY, Allen SL, Koleff J, <b>Brink J</b> , Konstantinov IE, Cheung M, Brizard CP, d'Udekem. Eur J Cardiothorac Surgery. 2017 Oct (epub ahead of print).
2017	Mid-term outcomes of congenital mitral valve surgery: Shone's syndrome is a risk factor for death and reintervention. Sugimoto K, Konstantinov IE, d'Udekem Y, <b>Brink J</b> , Zannino D, Brizard CP. Interact Cardiovasc Thorac Surg. 2017 Nov 1;25(5):734-739.
2017	Are more expensive procedures warranted at the time of aortic arch reoperation? Wong JSY, Lee MG, <b>Brink J</b> , Konstantinov IE, Brizard CP, d'Udekem Y. Eur J Cardiothorac Surg. 2017 Dec 1;52(6):1132-1138.
2017	Surgical management of extensive perinatal myocardial infarction. Perrier S, Parker A, Sheridan B, Konstantinov IE, Brizard CP, d'Udekem Y, <b>Brink J</b> . Ann Thorac Surg. 2017 Dec; 104(6):e435-437.
2017	<b>Editorial</b> <b>Brink J</b> , d'Udekem Y. Sinus of Valsalva aneurysms, tunnels, fistulas and blue moons. J Thorac Cardiovasc Surg. 2018 Jan;155(1):e55.
2018	Early mentoring of medical students and junior doctors on a path to academic cardiothoracic surgery. Fricke TA, Lee MGY, <b>Brink J</b> , d'Udekem Y, Brizard CP, Konstantinov IE. Ann Thorac Surg. 2018 Jan;105(1):317-320.

#### PERSONAL INTERESTES

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Running	Skiing
Classical guitar	Literature
Hunting	Surfing
Diving	