# CURRICULUM VITAE

**NAME : Stephen Cunningham**

**SURNAME : Brown**

**I.D NUMBER(SA) :** 590604 5095 083

**MARITAL STATE:** : Married ( 20/12/1980**)**

**DATE OF BIRTH:** : 4 June 1959

**CHILDREN :** 3

* Stephen - 19830615
* Robert - 19861102
* Marike - 19890511

**NATIONALITY :** South African

# WORK ADDRESS : Dept Pediatrics & Child Health

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**LANGUAGE PROFICIENCY: :**  English Afrikaans Flemish

Read: good good good

Speak: good good average

Write: good good poor

**2. QUALIFICATIONS**

**2.1. SCHOOL**

**NAME & PLACE GRADE YEAR**

Grey College Bloemfontein XII (Matric) 1977

**2.2. POST SCHOOL QUALIFICATIONS**

**INSTITUTION QUALIFICATION YEAR**

\* University of the Free State, M.B.Ch.B 1983

Bloemfontein (cum laude)

\* College of Medicine, South Africa DCH 1987

\* College of Medicine, South Africa FCP(pediatrics) 1990

\* University of the Free State, M.MeD(pediatrics) 1991

Bloemfontein (cum laude)

\* South African Medical Services Diploma Aviation 1985

Medicine

\* University of the Free State, Subspeciality: 1993

Bloemfontein PED. CARDIOLOGY

\* KULeuven Fellowship 1995/96

UZ GAsthuisberg, Belgium Ped Cardiology

1. **PROFESSIONAL EXPERIENCE**

# Position Held Employer and Place Duration

Internship Universitas/Pelonomi Dec 1983 –

Hospital, Academic Complex Dec 1984

Medical Officer 1 Military Hospital, Jan 1985 –

Pretoria Dec 1986

Medical Officer Groothoek Hospital, Dec 1986 –

Lebowa Sept 1987

Registrar/Senior Department of Paediatrics Oct 1987 –

registrar and Child Health, Sept 1991

University of the Orange

Free State, Bloemfontein

Specialist Paediatric Cardiology Oct 1991

and Intensive Care,

Department of Paediatrics

and Child Health, University

of the Orange Free State.

Senior Specialist Paediatric Cardiology, Jan 1994

(Consultant) asthma and intensive care.

Department of Paediatrics

and Child Health, UOFS.

Senior Fellow Paediatric Cardiology, 1/10/1995 –

University Hospital 15/12/1996

KU Leuven, Belgium

Consultant Paediatric Cardiology: Diagnostic & 1/4/2003-

Interventional Interventional 26/12/2003

Cardiologist SAAD Specialist Hospital

Al-Khobar, Saudi Arabia

Senior Specialist Paediatric Cardiology, Jan 1997 -

(Consultant) asthma and intensive care. Aug 2000

Department of Paediatrics

and Child Health, UFS.

Principal Specialist Paediatric Cardiology, Aug 2000 –

Senior Management Service Department of Paediatrics current

(Consultant) and Child Health, UFS

##### Associate Professor Paediatric Cardiology February 2006 –current

& Paediatrics

Visiting Consultant Paediatric Cardiology, 20 June – 30Sept 2008

University Hospital

KU Leuven, Belgium

Visiting Consultant Paediatric Cardiology, 10 July – 9 Aug 2009

University Hospital

KU Leuven, Belgium

1. **SPECIAL AWARDS**

# Award Year

S. Franklin Dux Medal for best matriculant, Grey College 1977

Award for best Pharmacology student in third year 1980

Poliomyelitis Foundation award for best microbiology student 1980

Dirk van Velden medal for best pathology student in fourth year 1981

Nestlè Prize for undergraduate Paediatrics 1983

Allen Hanbury’s award for best registrar presentation at 18th SAPA congress 1988

Nestlè Prize for best postgraduate Paediatric student 1991

Best Scientific Paper Faculty of Health Forum 27 August 1999 1999

APCASA best Scientific Paper, Netcare symposium 2003

SA Heart Gold Award Paediatric Abstract Presentation 2010

* 1. **SOCIETIES**

# Name Position Duration

Registrar Association, Chairman 2 years

University of Orange Free State

Full-time Medical Specialists Society Committee 1 year

University of the Free Departmental 2 years

Limited Private Practice Representative

Allergy Society of South Africa Regional Co-ordinator Jan 1995 – 2003

Free State and Northern Cape

Committee Member, Bloemfontein Chairman: House committee 1998 – 2000

Golf Club

Vice Captain Bloemfontein Golf 2000 - 2003

Executive committee Club

Bloemfontein Medics Club Chairman 1999 – 2003

Assosiation of Paediatric Cardiologists Committee Member 1998 - 2003

of South Africa (PCSSA)

Vice President 2006 - 2008

* 1. **MEMBERSHIP**

South African Medical and Dental Council no. MP 0270954

College of Medicine, South Africa

Critical Care Society

Allergy Society of South Africa (ALLSA)

Association of Paedaitric Cardiologists of South Africa (APCASA)

South African Heart Association (Cardiology) [SAHA]

Pediatric Cardiology Society of South Africa (PCSSA)

The Association for European Paediatric Cardiology (AEPC): 25/5/2006

Medical Protection Society: no 12/11033

SCAI International Member USA : 19/05/2009

**5.3 OVERVIEW: EDUCATIONAL & ACADEMIC**

**EDUCATION**

* 1. **Undergraduate Programs**

## Department of Paediatrics

Number of students: ± 100 – 120 each per year in M.B.Ch.B IV& V

Lecturer & senior lecturer, all years: 1991 – current

\* Regular teaching in specific courses includes paediatric block lectures on Paediatric cardiology and

respiratory medicine pertaining to childhood. Includes whole class lectures.

\* Clinical skills and examination techniques for undergraduate students. Clinical supervision of

undergraduate medical students at teaching hospitals (1991 onward) and primary care facilities

(1991-1995).

\* I personally developed video-assisted training course for Paediatric Cardiology with training manual

for the new M.B.ChB III & V curriculum

\* Regular examiner for block and end of year examinations, theoretical and clinical.

\* Regular external examiner at local South African Universities: Stellenbosch, Pretoria, Wits, Natal

**Organisational activities**

* Convener MB.ChB VI old curriculum Paediatric program 1998 – 2004
* Co-convener MB.ChB V new curriculum Paediatric Program 2004- current
* Co-director, development Paediatric Cardiology undergraduate curriculum, UFS
* Clinical Skills Development for MB.ChB III – V, video assisted training program

## Clinical Technology Central University of Technology

Part-time lecturer clinical technology year 1 – 3

Full-time in-service training of undergraduate Paediatric Cardiology clinical technologists: including journal, formal lectures as well as in-service hands-on clinical training.

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Promoter for ***B.Tech****(clinical technology)*degrees: 1998 – current ( this included 6 dissertations of clinical research projects)

\* Coarctation of the aorta: echocardiographic and clinical correlates: M Pienaar

\* Catheter and echocardiographic measurements of tricuspid regurgitation 2002: K Nel

\* Estimation of PDA size using LA-Ao ratio. G. Weydemann 2002

\* Mitral stenoses: outcomes. R Pretorius 2003

\* M-mode measurements in preterm infants. S Terblanche 2005

\* TEI-index of cardiac function in low birthweight infants. D Kluge 2005

\* Determination of the accuracy of PIG measured with Echocardiography to establish VSD

size. ETOVS 80/06. D Strauss

\* A comparison between 2-Dimensional and three dimensional volumetric LVEF determination

ETOVS 82/06. AS Terblanche. (Prize for best project in group from SUT)

\* Mitral valve area determination comparing 2-D and 3-D methods. ETOVS 81/06. H v Deventer.

\* Echocardiographic determination of pulmonary to systemic shunting in ventricular septal defects. ETOVS 08/08. C Kruger

\* Changes in VSD size during contraction of the heart. A novel prospective 3 dimensional echocardiographic study. ETOVS 10/08. R Engelbrecht.

\* An echocardiographic evaluation and comparison of certain diameters of the isthmus and descending aorta in normal children and adolescents. ETOVS 09/08. S Jacobs.

* 1. **Postgraduate Programs**

Statistics: Registrar and Medical Officer training: 14 – 20 individuals at all times

* Clinical Supervision and lectures to postgraduate professionals including Paediatric registrars, Paediatric course for nursing professionals and other health workers(inclucing physio- and occupational therapy) at the University of the Free State and in the local, regional and provincial health service.
* Supervision and consultation of medical staff of Paediatric Cardiology Service including registrars and multidisciplinary staff at Universitas Hospital.
* Co-ordination of weekly multidisciplinary clinical meeting for related disciplines at department of cardiothoracic surgery, UFS.
* Lectures on embryology, physiology and other Part I aspects of Paediatric Cardiology
* Lectures on aspects of Paediatric Cardiology to senior registrars
* Group clinical case discussions with senior registrars
* OSCE training for senior registrars
* Lectures on Paediatric Cardiology and related topics at general practitioners refresher courses
* Council member Faculty of Paediatrics, College of Medicine SA.

**Organisational aspects:**

* Lecturer & Senior lecturer, Department of Paediatrics, Part I & II M.MeD: 1991 – current
  + - In-service training
    - Practical training
    - Group discussion
    - Curriculum & Program development: paediatric Cardiology
* Co-director, development Paediatric Cardiology postgraduate curriculum, UFS
* Postgraduate examiner & external examiner for M.MeD with Paediatrics at both local and other South African Universities
* Chief organiser VIIth annual SA Heart Association congress Cape Town 2006, Paediatric Cardiology
* Examination Convenor, College of Medicine SA:

Diploma in Child Health(DCH)

FCP with Paediatrics Part I & II

* Examiner College of Medicine SA:

Diploma in Child Health(DCH)

FCP with Paediatrics Part I & II

* 1. **Sub Speciality**
* Development of 3 year subspecialty curriculum, Paediatric Cardiology, College of Medicine SA (published on SAHA website)
* Liaison of Paediatric Cardiac Society with European Society of Paediatric Cardiology
* Recognised Consultant for training of subspeciality
* Convenor & Examiner of Paediatric Cardiology Subspeciality exams
  1. **Other**
* Training in Paediatric Cardiology for allied health professionals: lectures & in-service training for school of nursing, physiotherapy
* Hands-on training for Clinical Technologists to comply with International standards
* Trained fellow specialist cardiologist in Paediatric Transthoracic and Transesofageal Echocardiography
* Institution of Foetal Echocardiography Clinical with Department of Obstetrics, UFS
* Initiated and maintain Mitral Stenosis Angioplasty program for children and adults.
* Interventional Service for adult cardiology: percutaneous device closure of defects.
  1. **Continuing Medical Education**
* Guest lecturer for Department of Family Medicine at postgraduate courses & seminars
* Free State & Northern Cape Regional Director for the Paediatric National Asthma Education Campaign: 1993 – 2003. Includes lectures and consulting services as well as convenor of Seminars in Allergology.
  + Lectures at: Bloemfontein, Welkom, Kimberley, Bethlehem, Barkley-East, Upington, Qwa-Qwa, Kroonstad
* CME courses for allied health professionals including radiology, physiotherapy etc.
* Co-coordinator and fellow lecturer for the Robert MacDonald Rural Trust in the Eastern Free State, Qwa-Qwa, Upington and Barkley-East, including mostly allied health professionals.
* Visit hospitals as component of outreach programme, Paediatrics.
* Postgraduate Courses:
  + - * Basic Life Support 2002
      * Advanced Cardiac Life Support 2002

**RESEARCH**

* Received grant from Medical research Council for self-initiated research in 1992
* Promotor of research projects: exchange students from Maastricht, the Netherlands
* Promotor of several research projects MB.ChB II & III since 2001
  + Safety and efficacy of Pulmonary Balloondilatation in the Free State: 2002
  + Cardiac and Morphological aspects of chromosome 22 deletions: 2003
  + Customer satisfaction in a provincial Paediatric Cardiac Clinic: 2004
  + Results and outcome of Aortic valve angioplasty: 2005
* Promotor of numerous B.Tech research projects for Central university of Technology
* Promoter of Research Projects for International students in corroboration with University of Maastricht, Netherlands
  + Incidence of rheumatic fever in the Free State: 1999
  + Cardiac manifestation of HIV in a general ward: 2001
* Self-initiated research projects in Belgium and South Africa (see publications & presentation lists)varying from general Paediatrics, croup, asthma, HIV and Paediatric Cardiology. Responsible for total research output of Department of Paediatric Cardiology since inception.
* Senior Research fellow, Catholic University of Leuven, Belgium 1995-1996; 3 articles published in International Journals.
* Promotor and co-promotor for Masters degrees in School of Nursing:
  + Incidence of cardiac abnormalities in children of the Free State: 2001
* Principal Investigator and investigator in contract research projects since 1993 (see list)
* Co-operate in National genetics research project in congenital heart diseases
* Reviewer for the South African Cardiovascular Journal (**CVJS**A)
* Reviewer for **HEART**, Journal of BMJ group, UK
* Received awards for best scientific papers:
  + Allen Hanbury award 1988
  + Faculty Health Forum 1999
  + Association of Paediatric Cardiologists-Netcare award 2003

\* Promotor M. Tech, Central University of Technology 2009/10: J Steyn. The assessement of echocardiographic and tissue Doppler profiles of asymptomatic patients in a general cardiology practise.

**CLINICAL SERVICES/ PROFESSIONAL**

* Specialist: junior, senior to Principal Specialist as consultant cardiologist in department of Paediatric Cardiology, Paediatrics & Child Health. Delivers Paediatric Cardiology services for community. Unit sees ± 3500 patients annually:
  + - Diagnostic
    - Preventative
    - Echocardiographic
    - Interventional
    - Foetal diagnostic Service
* First Paediatric Consultant of Universitas Hospital Intensive Care Unit. Responsible for budget planning, equipment acquisition and service delivery of the ICU. Also started first risk scoring and outcomes evaluation database for Paediatric Intensive Care. Responsible for training postgraduate students and service delivery from 1992 – 2004.
  + Clinical Head of Paediatric ICU, Universitas & Pelonomi Hospitals: 1991 – 1997
* Initiated first foetal Echocardiography Clinics for patients together with department of Obstetrics in 1997.
* Developed a Paediatric Cardiology Database into functional, operational system – paperless. Improved research output and patient care.
* Head of Clinical Services: Paediatric Cardiology since 2000
  + - Initiated child-friendly program
    - Co-operation with department of Cardiology
    - Improved liaison with Department Cardiothoracic Surgery
      * booking of surgery managed by Paediatric team
      * ICU ward rounds
    - Director for Equipment budget Paediatric Cardiology
      * initiated first long-term budget in 2001
      * first 3-D Echocardiograpahy facility in SA
    - Monitoring of Cost centre
    - Improved service-delivery to clients at clinics
    - Instituted first GUCH-clinic in South Africa in 2005
* Appointed Chief User in 2001 by Free State Health Department
* Acting Head of Paediatric Cardiology in 2001
* Responsible for running department Paediatric Cardiology personnel service delivery
  + - 5 Clinical technologists
    - 2 Radiographers
    - 1 secretary
    - 9 nurses
    - 1 registrar
* Registered as physician:
  + HPCSA (Health professionals council, South Africa)
  + GMC, United Kingdom (General Medical Council)
  + Saudi Council for Heart Specialists
  + Société Belge Médicale

**UNIVERSITY**

**Faculty:**

* Chairman, registrars’ Association UFS 1988 – 2000. Was a member of the first national committee to create a voice for registrars and to liaise at national level.
* Member of Faculty Board, School of Medicine: 1991 - current
* RWOPS: 1991
  + Departmental representative Academic Group Practise:1991 – 2002
  + Founder Member Bloemfontein group Practise: 2003
  + Secretary Bloemfontein Group Practise: 2003 - current
* Departmental representative, Paediatrics MB.ChB VI curriculum: 1999 – 2004
* Departmental representative, Paediatrics M.B.Ch.B V new curriculum: 2005 –current
* Acting head, department Paediatric Cardiology, UFS: 2001
* Member of academic evaluation committee, faculty forum 2003
* Chairman of Academic Evaluation Committee, Faculty Forum 2004
* 10 Year Long Service Award UFS, 2001
* Appointed Associate Professor, Academic Feb 2006
* Elected member Finance Committee, Faculty of Health Sciences 2008-2011
* Chairman Annual Astra-Zeneca Faculty Forum Organizing Committee 2008/9

**Department**

* Senior Lecturer, under- and postgraduate curriculum
* Paediatric curriculum development : new MB.ChB curriculum
* Principal specialist in Paediatric Cardiology
* Member Financial Committee Dept Paediatrics

### Other

* Free State representative Paediatric Cardiology subspeciality, College of Medicine South Africa
* Association of Paediatric Cardiologists South Africa: secretary and committee member 1999 -2001
* Consultant interventional Cardiologist and Chief of Paediatric Cardiology, SAAD Specialist Hospital, Al-Khobar Saudi Arabia, 2002. Establishment of Clinical Services and protocol development for safe practise, Joint Commission International in 2002.
* Executive Committee Member ALLSA, Paediatric Asthma National Awareness Campaign 1993 – 2001
* Evaluator dissertations for M.MeD(paediatrics), University of Witwatersrand
* Committee Member, Free State branch, SA Heart Association
* Member organising Committee SAHA 2006 congress: director of Paediatric Cardiology Program
* Council Member, Faculty Paediatrics, College of medicine South Africa 2008 – 2010
* Member of Expert Committee of Medicines Control Council SA: clinical trials committee 2008-2010
* Treasurer Paediatric cardiac Society SA
* Treasurer Free State SAHA branch
* National Principal Investigator, Clarinet trial 2007- 2010
* Member of International Steering Committee Clarinet Trial, Sanofi Aventis 2007 -2010
* Chairman: organizing committee Annual Astra Zeneca faculty Forum 2009.
* Councillor College of Paediatrics, College of Medicine SA 2008-2010
* Executive & Science Committee 26th IPA conference, Sandton Convention Center, Jhb
* Executive & Scientific Committee 13th International Pediatric Cardiology and Cardiac Surgery Congress 2013.

**COMMUNITY**

* Paediatric advisor Oranje Vrouevereniging 1992, 1993
* Secretary Bloemfontein Medics Golf Club 1998
* Chairman Bloemfontein Medics Golf Club 1999-2002
* Committee member Bloemfontein Golf Club 1998
* Chairman House Committee Bloemfontein Golf Club 1999,2000
* Vice Captain & Executive Committee Member Bloemfontein Golf Club 2001,2002
* Executive member: Fund raising committee President Brand Primary School
* Member Old Grey reunion
* Worker & supporter: Elanja Children’s feeding project, Heidedal
* Senior executive management committee, Biker’s Church, Bloemfontein
  1. **PUBLICATIONS: JOURNALS**

1. ***S.C. Brown***, K.C. Househam. Visual stool examination – a screening test for infants with prolonged neonatal cholestasis. SAMJ, Vol 77, 7 April 1990, 358 – 359.

2. ***Brown SC***, Eyskens B, Mertens L, Stockx LO, Dumoulin M, Gewillig M

Self expandable stents for relief of venous baffle obstruction after the Mustard operation.

Heart 1998;79:230-233

3. ***Brown SC***, Eyskens B, Mertens L, Dumoulin M, Gewillig M

Percutaneous treatment of stenosed major aortopulmonary collaterals with balloon dilatation and stenting: what can be achieved?

Heart 1998;79:24-28

4. Long-term assessment and serial evaluation of cardiorespiratory exercise performance and cardiac function in patients with atrial switch operation for complete transposition. Reybrouck T, Mertens L, **Brown S**, Eyskens B, Daenen W, Gewillig M. Cardiol Young 2001; 11: 17 -24

5. Balloon Angioplasty of Native Coarctation of the Aorta in local Children: Acute Results and Midterm Angiographic Re-Assessment*.* ***Brown SC***, Bruwer AD. Cardiovasc J SA;2003:14:177-81

6. Percutaneous closure of atrial septal defects: the Bloemfontein experience. ***Brown SC***, Bruwer AD Harrisberg J, Goovendrageloo K. Cardiovasc J SA;2004:15(1):28-32

7. Effectiveness of single detachable COOK coils in closure of the Patent Ductus Arteriosus. *SC Brown*, AD Bruwer, AM Al-Zaghal, A Claassens. Cardiovasc J SA;2004:15(2):57-61

8. 10 year experience of transluminal treatment of severe congenital stenosis – hypoplasia

of branch pulmonary arteries or MAPCA’s. Boshoff D, Mertens L, Budts W, Eyskens B,

Brown S, Gewillig M. Cardiology in the Young;2004:14:30(O24-6)

9. A rare case of Ebstein’s anomaly in a dizygotic twin.. AM Al-Zaghal, SC Brown. J of Saudi Heart Association;2004:16(2):122-124

10. Pulmonary Hypertension due to recurrent juvenile laryngeal papillomatosis. Grobler J, Seedat RY, Brown SC, Claassen AJ. Int J of Ped Otorhinolaringology:2005:69:1279-1282

11. Cardiac findings in children admitted to a general ward in South Africa: a comparison of HIV infected and uninfected children. *Brown SC*, Schoeman CJ, Bester I. Cardiovasc J SA;2005:16(4):207-11

12. Intravenous Amiodarone for Incessant Tachyarrhythmias in Children:

A Randomized Double-Blinded Anti-Arrhythmic Drug Trial. JP Saul, W Scott, **SC Brown** et al. For the Intravenous Amiodarone Pediatric investigators. Circulation.2005;112:3470-3477

13. A guide to the management of familial hiperlipidaemia in childhood. Bruwer AD, **Brown SC**. SA Heart ;2005:22-28.

14. A statement of intent on the formation of the NCRP on Cardiovascular and metabolic Disease: a new initiative to fight heart disease, stroke, diabetes and obesity in South Africa. Mayosi B, Bryer A, Lambert V, Levitt N, Noakes T, Ntshekhe M, Opie L, Rayner B, Zilla P, **Brown S** et al. CVJSA 2007;18(1):4 – 6.

1. Chronic pulmonary arterial hypertension in children. Bruwer AD, **Brown SC**. SA Heart ;2007;4:18-25.
2. Percutaneous closure of ventricular septal defects in childhood. **Brown SC**, Bruwer AD, Smit FE. SA Heart ;2007;4(1):26-31.
3. Guidelines for Paediatric Echocardiography in South Africa. Hoosen EGM, Hugo-Hamman C, Cilliers AM, **Brown SC**, Lawrenson J, Harrisberg J, Dansky R. SA Heart ;2007:48-51.
4. Guidelines for the management of grown of congenital heart disease(GUCH). Cilliers A, Hugo-Hamman C, **Brown S**, Levin S. SA Heart ;2007:52-53.

19. Coronary artery in-stent stenosis persists despite inhibition of the von Willebrand factor--collagen interaction in baboons. [De Meyer SF](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22De%20Meyer%20SF%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Staelens S](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Staelens%20S%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Badenhorst PN](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Badenhorst%20PN%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Pieters H](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Pieters%20H%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Lamprecht S](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Lamprecht%20S%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Roodt J](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Roodt%20J%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Janssens S](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Janssens%20S%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Meiring M](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Meiring%20M%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Vanhoorelbeke K](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Vanhoorelbeke%20K%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Bruwer A](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Bruwer%20A%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [**Brown S**](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Brown%20S%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Deckmyn H](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Deckmyn%20H%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus). Thromb Haemost. 2007 Dec;98(6):1343-9

20. Anomalous Origin of the Right Pulmonary Artery from the Ascending Aorta: A Surgical Case Study in an Adult Patient with “Irreversible”Pulmonary Vascular Disease.

Long MA, **Brown SC**, De Vries W. J Card Surg 2009;24:212-215.

1. Use of a microcatheter in a telescopic system to reach difficult targets in complex congenital heart disease. **SC Brown**, D Boshoff, B Eyskens, L Mertens, M Gewillig.

Cath Cardiovasc Interven 2009;73:676-81

22. Hybrid approach as bridge to biventricular repair in an infant with borderline hypoplastic left ventricle. **SC Brown**, D Boshoff, B Eyskens, M Gewillig. Eur J Cardiothorac Sur 2009;35:1080-82.

1. Coronary compression caused by stenting a right pulmonary artery conduit. M Gewillig, **SC Brown**. Cath Cardiovasc Interven 2009;74.144-147.
2. Transapical left ventricular access for difficult to reach interventional targets in the left heart. **Brown SC**\*, Boshoff DE, Rega F, Eyskens B, Budts W,M, Heidbüchel H, Meyns B,MD, Gewillig M,MD. Cath Cardiovasc Interven 2009;74:137-42.

25 Premature fetal closure of the arterial duct clinical presentations and outcome. M Gewillig, **SC Brown**, L De Catte, A Debeer, B Eyskens,V Cossey, Van Schoubroeck, C Van Hole, R Devlieger. Eur heart J 2009;30:1530-36.

26 Perforation of the Aortic sinus after closure of atrial septal defects with the Atriasept occluder. **Brown S**, Gewillig M. Cath Cardiovasc Interven 2009;74:298-301.

1. The burden of cardiovascular disease in sub-Saharan Africa. Hewitson J, **Brown S**, Hugo-Hamman C, Zulhke L, Hoosen E, Harrisberg J. SA Heart ;2009;6:209 (correspondence)
2. Percutaneous management of a Fontan fenestration: in search of the ideal restriction-occlusion device. DE Boshoff, **SC Brown**, J DeGiovanni, O Stumper, J Wright, L Mertens, M Gewillig. Cath Cardiovasc Interven 2010;75:60-65.
3. Dilatable pulmonary artery banding in infants with low birth weight or complex congenital heart disease allows avoidance or postponement of subsequent surgery. **Brown SC**, Boshoff D, Rega F, Eyskens B, Meyns B, Gewillig M. Eur J Cardiothorac Sur 2010;37:296-301.
4. The Fontan circulation: who controls cardiac output? M Gewillig, **SC Brown,** B Eyskens, Heying R, J Ganame, W Budts, A Le Gerche, M Gorenflo. *Interact CardioVasc Thorac Surg* 2010;10:428-433.
5. Volume load paradox while preparing for the Fontan. Not too much for the ventricle, not too little for the lungs. M Gewillig, **SC Brown,** B Eyskens, Heying R, J Ganame, DE Boshoff, W Budts, M Gorenflo. *Interact CardioVasc Thorac Surg* 2010;10:262-265.

## Cardiac Abnormalities and Facial Anthropometric Measurements in children of the Free State and Northern Cape provinces of South Africa with chromosome 22q11.2 microdeletion. SC Brown, BD Henderson, DA Buys, M Theron , MA Long, F Smit. CVJA 2010;21:32-36.

1. The influence of Pulmonary regurgitation on regional right ventricular function in children after repair of tetralogy of Fallot. B Eyskens, **SC Brown**, P Claus, S Dymarkowski, M Gewillig, J Bogaert, L Mertens. Eur J Echocard 2010:11;341-345.
2. Audit of Paediatric cardiac services in South Africa. EGM Hoosen, AM Cilliers, CT Hugo-Hamman, **SC Brown**, JR Harrisberg, F Takawira, K Govendrageloo, J lawrenson, J Hewitson. SAHeart 2010;7:4-9.
3. Optimal paediatric cardiac services in South Africa – what do we need? EGM Hoosen, AM Cilliers, CT Hugo-Hamman, **SC Brown**, JR Harrisberg, F Takawira, K Govendrageloo, J lawrenson, J Hewitson. SAHeart 2010;7:10-16.
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8. Percutaneous closure of the patent foramen ovale: a cardiological perspective. Brown SC. SAHeart 2010;7:266-73.

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Balloon Dilation of stenosed MAPCA in Pulmonary atresia with VSD: How successful is it? Proceedings of the Second World Congress of pediatric Cardiology and cardiac Surgery. Futura Publishing. Armond New York. 1998. ISBN 0-87993-6991.(381)

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\* Smit FE, Brown SC, Botes L, Schulenburg, Prins C

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Revisited.

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Percutaneous closure of ventricular septal defects in childhood

SA Heart ;2007;4(1):26-31.

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Chronic Pulmonary Arterial Hypertension In Children

SA Heart ;2007;4(no 1):18-25.

\* MA Long, SC Brown, FE Smit, AD Bruwer

Pulmonary Hypertension in Ventricular Septal Defect and atrioventricular

septal defect revisited.

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Two-dimensional measurements of cardiac size and function in premature infants

of the Free State and Northern Cape

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Limitations in preoperative assessment of Pulmonary hypertension

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Africa 2008;19: S6 CVJA-H14.

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pulmonary artery banding in infants with low birth weight or complex

congenital heart disease allows avoidance or postponement of subsequent

surgery. Cardiovascular journal of Africa 2008;19:S6 CVJA-H15.

\* SC Brown, R Heying, D Boshoff, F Rega, B Eyskens, W Budts, H

Heidbuchel, B Meyns, M Gewillig. Transapical left ventricular access for

difficult-to-reach interventional targets in the left heart.

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\* J Hewitson, S Brown, C Hugo-Hamman, L Zulhke, E Hoosen, J Harrisberg.

The Burden of cardiovascular disease in sub-Saharan Africa.SAHeart 2009;6:209.

\* S Brown, D Boshoff, M Gewillig. Hybrid rescue off a severely hypoplastic pulmonary artery. SAHeart 2009;6:254-255.

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\* Gewillig M, Brown S, de Catte L, Eyskens B, Boshoff D. Premature fetal closure of the arterial duct: clinical presentations and outcome. Cardiology in the Young 2010, *20*, 67 (6022).

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\* The influence of Pulmonary regurgitation on regional right ventricular function in children after repair of tetralogy of Fallot. **SC Brown**, B Eyskens, M Gewillig. SA Heart 2010;7:193.

\* Sutureless rescue of a severely hypoplastic Pulmonary artery. SC Brown, M Gewillig. SA Heart 2010;7:194.

\* Use of a microcatheter in a telescopic system to reach difficult targets in complex congenital heart disease. **SC Brown,** M Gewillig. SA Heart 2010;7:194.

* 1. **A. ORAL PRESENTATIONS**

\* The value of stool examination in Academic day, UOFS 1988

infants with biliary atresia.

\* The value of stool examination in 18th SAPA Congress 1988

infants with biliary atresia.

\* The profile of paediatric cardiology Academic day, UOFS 1993

at Universitas Hospital.

\* Involvement in 1994 Paediatric Asthma Cape Town, Febr. 1994

Concencus Statement

\* What do Health Care professionals know Karos Lodge, 25 – 29 Aug. 1994

about childhood asthma? SAPA congress

\* What do General practitioners know ALLSA-congress, Sandton

about childhood asthma? September 1994

\* Transcatheter closure of the patent. SACS congress

. ductus arteriosus using COOK Nov 1998

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\* Brown SC, Eyskens B, Mertens L, Dumoulin M, Gewillig M

Balloon Dilation of stenosed MAPCA in Pulmonary atresia with VSD: How successful is it?

Second World Congress of pediatric Cardiology and cardiac Surgery. Hawaii 1998.

\* Perkutane Sluiting van Atriale Septale Defekte

Brown SC, Bruwer AD

Faculty Forum, Aug 2000.

\* The Initial experience with atrial septal defect occluders in South Africa

Harrisberg JR, Govendrageloo K, Dansky R, Pribut H, Brown SC, Bruwer A.

SAHA congress, Cape TownNov 2000.

# \* Ballondilatasie by Mitraalstenose: korttermyn resultate van inisiële program

S C Brown, S Steyn\*, SR Pretorius, G Weydemann, A Claassens, E Venter, K Nel

Faculty Forum, Aug 2001

\* Balloon Angioplasty of Native Coarctation of the Aorta in Children: Acute Results and Midterm Angiographic Re-Assessment

S.C.Brown, M.Pienaar, A.Claassens

Faculty Forum, Aug 2001

\* Experience with the Amplatzer ductal occluder for large patent ducti

JR Harrisberg, K Goovendrageloo, S Brown.

Second Biennal Paediatric Cardiac Symposium, 20 –22 Sept 2001

\* Balloon angioplasty of native coarctation of the aorta in children

SC Brown, A Bruwer, JR Harrisberg, K Goovendrageloo

Second Biennal Paediatric Cardiac Symposium, 20 –22 Sept 2001

\* Amiodarone IV for incessant tachyarrhytmias: results of the first randomized

double blinded anti-arrhythmic trial in children. Saul JP, Etheridge S, Perry J

Triedman JK, Scott W, Brown SC, Marantz P, Acevedo V et al.

North American Society of Pacing and Electrophysiology 24th Annual Scientific

Sessions. May 14, 2003, Washington DC.

\* Cardiac findings in children admitted to a general ward: a comparison of

HIV-infected and uninfected patients.

S C Brown, CJ Bester.

Faculty Forum UFS, 29 August 2003.

\* Cardiac findings in children admitted to a general ward: a comparison of

HIV-infected and uninfected children.

S C Brown, CJ Bester.

Netcare Paediatric Cardiology Symposium 24 – 26 October 2003, Cape Town.

\* Cardiac and anthropometric manifestations of 22q11 microdeletions in Free State children.

SC Brown, BD Henderson.

Netcare Pediatric Cardiac Symposium, SAHA congress, Durban 8th Oct 2004.

\* Cardiac and anthropometric manifestations of 22q11 microdeletions in Free State

and Northern Cape Children.

SC Brown, BD Henderson

Faculty Forum, UFS 26 Aug 2005, Bloemfontein.

\* Customer Satisfaction in a Provincial Paediatric Cardiac Clinic

SC Brown, AD Bruwer

SAHA congress, 18 October 2005, Champagne Castle Resort.

\* Paediatric Hyperlipidaemia: Evening Symposium.

Bruwer AD, Brown SC

SAHA congress, 17 October 2005

Evening Symposium, Ondini, Champagne Castle Sports resort

\* R.Y. Seedat, S.C. Brown, G. Joubert. Pulmonary hypertension in children with laryngeal papillomatosis. IXth International Congress of the European Society of Pediatric Otorhinolaryngology, Paris, 18-21 June 2006

\* R.Y. Seedat, S.C. Brown, G. Joubert. Pulmonary hypertension in children with laryngeal papillomatosis. 42nd Annual Congress of the South African Society of Otorhinolaryngology, Head and Neck Surgery, 8-11 October 2006, Cape Town

\* Reliability and Accuracy of 3-Dimensional Echocardiography.

Brown SC, Bruwer AD, Terblance A, van Deventer H

SAHA Congress, 1 November 2006, Somerset West, Cape Town

\* Smit FE, Brown SC, Botes L, Schulenburg, Prins C

Pulmonary Hypertension in Ventricular Septal Defect and

atrioventricular septal defect revisited. (Plenary session)

SAHA Congress, 1 Nov 2006, Somerset West, Cape Town

\* MA Long, SC Brown, FE Smit, AD Bruwer

Pulmonary Hypertension in Ventricular Spetal Defect and atrioventricular

septal defect revisited.

Pan African Society of Cardiology, Nairobi, Kenya 13 – 16 May 2007

\* SC Brown, M Claassens, A Bruwer

Two-dimensional measurements of cardiac size and function in premature infants

of the Free State and Northern Cape

Heart 2 heart Africa 2007, Sun City congress

\* FE Smit, J Brink, S Brown et al

Limitations in preoperative assessment of Pulmonary hypertension

Heart 2 heart Africa 2007, Sun City congress

\* SC Brown

Percutaneous Interventions for Congenital Cardiac Conditions

Guest speaker PACSA congress - 3 Nov 2007

Bloemfontein, Kopano Nokeng

\* SC Brown

Recognition & referral in the periphery. Problems in South Africa

Pre-congress workshop on Paedaitric Cardiac Services in South Africa

Guest speaker. 22 November 2007

Heart 2 heart Africa 2007, Sun City congress

\* SC Brown, B Eyskens, F Rega, B Meyns, M Gewillig. Dilatable

pulmonary artery banding in infants with low birth weight or complex

congenital heart disease allows avoidance or postponement of subsequent

surgery. 9th Annual Congress of SAHA 2008, Wild Coast 2 -5 Nov 2008.

**\*** SC Brown, D Boshoff, R Heying, B Eyskens, M Gewillig. Hybrid

approach as bridge to biventricular repair in a neonate with critical

aortic stenosis and borderline left ventricle. 9th Annual Congress of SAHA 2008, Wild Coast 2 -5 Nov 2008.

\* DG Buys, SC Brown, F Smit, M Long, AD Bruwer. Temporary use of small stents to delay surgery in children with cardiac disease. Faculty Forum, Faculty of health Sciences

, Astra Zeneca, 27,28 August 2009.

\* S Brown, D Boshoff, M Gewillig. Hybrid rescue off a severely hypoplastic pulmonary artery. SAHeart 2009 Congress 10th Sun City 2009

\* M Gewillig, S Brown, L de Catte et al. Premature closure of the arterial duct: clinical presentations and outcome. SAHeart Congress 10th Sun City 2009

\* S Brown, D Boshoff M Gewillig. Stent expansion of Gore-Tex grafts in children with congenital heart lesions. SAHeart Congress 10th Sun City 2009

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\* SC Brown, B Eyskens, M Gewillig. The influence of Pulmonary regurgitation on regional right ventricular function in children after repair of tetralogy of Fallot. SA Heart Congress, 11th Sun City 8-11 Aug 2010.

\* SC Brown, invited speaker. 3D Echocardigraphy for congenital Heart Disease – ready for general use? New Horizons in Echocardiography. Sandton Convention Center 17-18 July 2010.

\* SC Brown, invited local faculty speaker. Stenting of the PDA. SA Heart Congress , 11th Sun City 8-11 Aug 2010.

\* SC Brown. Invited local faculty speaker. Closing the PFO: cardiological perspective. , 11th Sun City 8-11 Aug 2010.

\* SC Brown. Invited local speaker. Important principles in diagnosis and management in Pediatric Cardiology and new perspectives. GP refresher course, Bleomfontein 20 Aug 2010.

**B Posters**

Brown SC, Eyskens B, Mertens L, Dumoulin M, Gewillig M

Balloon Dilation of stenosed MAPCA in Pulmonary atresia with VSD: How successful is it?

Second World Congress of pediatric Cardiology and cardiac Surgery.. 1998.

Eyskens B, Devriendt K, *Brown S*, Dumoulin M, Mertens L, Gewillig M.

Familial Supravalvular Aortic Stenosis and Multiple Peripheral Pulmonary Arterial stenosis: Clinical and molecular studies.

Second World Congress of pediatric Cardiology and cardiac Surgery. 1998.

Mertens L, Gewillig M, eyskens B, Dumoulin M, *Brown S,* Daenen W, Reybrouck T

Slow Kinetics of oxygen uptake at onset of exercise in patients with a Fontan circulation.

Second World Congress of pediatric Cardiology and cardiac Surgery. 1998.

Ductal Closure using the Grifka Device

Brown SC, Bruwer AD, Weydemann G, Claassens A, Venter E.

SAHA congress, Nov 2000.

Ductal Closure using the Grifka Device

Brown SC, Bruwer AD, Weydemann G, Claassens A, Venter E.

Faculty Forum, Aug 2000

Use of a microcatheter in a telescopic system to reach difficult targets in complex congenital heart disease. **SC Brown,** M Gewillig. SA Heart Congress 8-11 Aug 2010, Sun City.

Sutureless rescue of a severely hypoplastic Pulmonary artery. SC Brown, M Gewillig. SA Heart Congress 8-11 Aug 2010, Sun City. **GOLD MEDAL WINNER**

* 1. **CONGRESSESS**

# Congress Location Year

18th South African Paediatric Congress Pretoria 1988

Paediatric infectious diseases refresher Cape Town 1991

course (77/91)

Critical care refresher course Bloemfontein 1991

Paediatric Intensive Care Cape Town 1992

refresher course

Critical Care refresher course Bloemfontein 1992

South African Cardiology Sun City, 1992

Society bi-annual congress Bophutatswana

South African Paediatric Karos Lodge 1994

Society (SAPA) congress

Allergy Society / International Sandton Sun, 1994

Immunology society (ALLSA) Johannesburg

Congress RSA

South African Cardiac Society Cape Town 1994

Bi-annual Congress SA

Cardiology in the Young London 1996

Is the right Ventricle the Germany

Right ventricle?

Second World Congress Hawaii 1997

Of Pediatric Cardiology &

Cardiac Surgery

XIVth South African Namibia 1997

Pulmonology Society Congress 31 Aug-3Sept

3rd International Congress Monte Carlo 1998

on Pediatric Pulmonology June 17-20

Second Pediatric Interventional Boston 1998

Cardiac Symposium(PICS II) Sept

ALLSA congress Johannesburg 1998

Oct

Cardiac Society Congress Durban 1998

Nov

Faculty Forum Bloemfontein 2000

24 – 25 August

World Congress on Lung Florence, Italy 2000

Health & 10th ERS congress August 31 – 3 September

Fourth Pediatric Interventional Chicago, Illinois 2000

Cardiac Symposium USA September 24 – 27

1st Congress of the South African Stellenbosch 2000

Heart Association South Africa November 26 – 29

2nd Biennial Paediatric Cardiac Johannesburg 2001

Symposium Morningside, SA September 20 –22

CASSA ( cardiac arrhytmia Johannesburg, SA 2002

Society of SA) 9 & 10 February

SAHA Cape Town 2003

SA 24 – 28 October

Eighth Pediatric Interventional Chicago , Illinois 2004

Cardiac Symposium USA 19 –22 September

SAHA Durban 2004

SA 5 – 9 October

5th International Workshop San Donato, Milan 31 March – 2 April

on Interventional Italy 2005

Pediatric Cardiology

SAHA congress Champagne Castle Sports 16 – 20 October

Resort, SA 2005

VIIth SAHA congress Lord Charles Hotel, 29/10 – 1 November

Cape Town 2006

Paragmed Paediatric Cardiology Spier Estate 28 Oct 2006

Guidelines Symposium Cape Town

PICS-AICS The Bellagio, Las Vegas 22-25 July 2007

Structural heart Disease Symposium Nevada, USA

VIIIth SAHA congress Sun City, 22-25 November

Heart 2 heart South Africa 2007

3-D Echocardiography course Lausanne 18 – 20 September

from fetus to adult and from LV Switzerland 2008

function to dyssinchrony with Cardiomet

hands on teaching.

IXth SAHA congress Wild coast Sun 2 – 5 November

South Africa 2008

Xth SAHA congress Sun City 22-25 October

South Africa 2009

New Horizona in Sandton ICC 16-18 July

Echocardiography Johannesburg 2010

IPA World Congress Sandton ICC 4-9 Aug

Johannesburg 2010

11th SAHA congress Sun City 9-11 Aug

South Africa 2010

* 1. **SIMPOSIA**

Ciba-Geigy Simposium on Somerset West 1994

long-acting bronchodilators (3 – 5 March)

Simposium on Airway Inflammation Victoria Falls, 1994

Zimbabwe

(27 – 31 July)

Corporate GCP course Parexel International 2 Nov 2006

Bloemfontein

Corporate GCP course Parexel International July 2010

Bloemfontein

* 1. **WORKING GROUP**

Member of the South African Asthma Concencus Working Group (SACAWG). Cape Town, 4 – 6

February 1994

* 1. **Courses**

International English Language Testing System (IELTS) Academic – Australia & University of Cambridge: 23/10/2003

GCP: Farmovs-Parexel: 19 May 2010

**6.8 Invited Lectures**

* General aspects of Paediatric Cardiology of importance: postrgraduate nursing Diploma. 17/8/05
* Modern approach to Paediatric Cardiology. Radiology morning symposium, Bloemfontein. 20/8/05
* Echcardiography for beginners. Cardiothoracic Group meeting. 18/8/05
* Chest pain in childhood. Mediclinic Refresher course for practitioners.: 12/9/05
* Hypercholesterolemia in childhood, SAHA congress, 2005

1. **ACADEMICAL, CLINICAL, RESEARCH INTERESTS**

7.1 Paediatric : cardiology

intensive care

croup

asthma

* 1. Student teaching: under and post graduate

7.3 **Medical Research Council:**

Granted bursary for self-inisiated research – “The effect of inhaled steroids in children with mild to moderate asthma.

* 1. **CONTRACT RESEARCH**:
     1. Glaxo, SA.

FLTB 3002. Acute asthma study. September 1994 – May 1995.

* + 1. Boëhringer Ingelheim.

ZA046. Berotec study.

June 1995

* + 1. Wyeth Aerst

Protocol 0585K1-100275-US 2002

* + 1. Primate Project 2004
    2. Sanofi Aventis ECF 5314 2008 CLARINET (national PI)
    3. Diacoustic ETOVS 112/09: Digitally automatic cardiac sound
    4. Actelion. 2010 FUTURE 3. PAH in children AC-052-373(national PI)

1. **REFERENCES**

Prof. G van Zyl Head, School of Medicine,

University of the Free State,

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**S C Brown**