

## CURRICULUM VITAE

### PERSONAL DETAILS

**Name** : Anton Frans Doubell

**Address** : 35 Dalsig Road  
Valmary Park  
7550  
South Africa

**Date of Birth** : 16 February 1956

**Nationality** : South African

**HPCSA registration** : MP 0218391

**Present appointment** : Professor and Head  
Division of Cardiology,  
Department of Medicine,  
University of Stellenbosch  
and Tygerberg Hospital

**Institution Address** : Cardiology Division  
Tygerberg Hospital  
Parow Valley  
7500  
South Africa

## **EDUCATION/PROFESSIONAL QUALIFICATIONS**

- 1973 : Matriculated at Pearson High School, Port Elizabeth  
 1979 : MB ChB (Cum Laude) at Stellenbosch University  
 1987 : MMed (Internal Medicine) at Stellenbosch University  
 1987 : FCP (SA)  
 1988 : BSc Hons (Cum Laude) at Stellenbosch University  
 1993 : PhD (Medical Biochemistry) at Stellenbosch University

## **AWARDS**

- 1973: Medal from the City Council of Port Elizabeth for best matric results in the Eastern Province  
 Medal from Pearson High School for achievements in the matric examinations
- 1979: Special awards during MB ChB: Best student in pharmacology, internal medicine, general surgery and obstetrics and gynaecology
- 1979: Faculty medal for best medical student  
 Queen Victoria stipendium
- 1986: Merit award for poster presentation at the XVth South African Cardiac Congress
- 1988: AJ Brink Trophy for the best full-time research presentation at academic year day of the Faculty of Medicine, University of Stellenbosch
- 1989: Best post-graduate student in Medical Sciences, Faculty of Medicine, University of Stellenbosch  
 AJ Brink Trophy for the best full-time research presentation at academic year day of the Faculty of Medicine, University of Stellenbosch  
 South African MRC post-doctoral scholarship for study abroad  
 Sandoz research scholarship for study abroad
- 1991: Canadian MRC fellowship
- 1992: Francie van Zyl medal for the best part-time research presentation at Academic Yearday of the Faculty of Medicine, University of Stellenbosch
- 1994: Co-author of best presentation by a young researcher at the Academic Yearday at the Faculty of Medicine, University of Stellenbosch
- 1998: Co-author of best presentation by a young researcher at the Academic Yearday of the Faculty of Medicine, University of Stellenbosch
- 1999: Co-author of best publication in Cardiovascular Journal of South Africa.
- 2002: Co-author of best poster at Congress of the South African Heart Association
- 2003: Co-author of best poster (J.A. Beyers floating trophy) at the Academic Yearday of the Faculty of Health Sciences, University of Stellenbosch
- 2004: Co-author of best research presentation (Francie van Zyl medal) at the Academic Yearday of the Faculty of Health Sciences, University of Stellenbosch

- 2007: Faculty Award for Excellence in Teaching, Faculty of Health Sciences, University of Stellenbosch
- 2008: Presenter of research presentation at the Academic Yearday, Faculty of Health Sciences selected for a merit award (3<sup>rd</sup>)
- 2009: Co-author of best research presentation at the Academic Yearday, Department of Medicine, Faculty of Health Sciences.
- 2009: Invited to become a member of the Editors Forum of the European Society of Cardiology.
- 2010: Co-author of best research poster at the Academic Yearday, Department of Medicine, Faculty of Health Sciences.
- 2011: Rectors Award for General Achievement, Faculty of Health Sciences, University of Stellenbosch
- 2012: Co-author of winning clinical presentation at the Academic Yearday, Department of Medicine, Faculty of Health Sciences.
- 2013: Co-author of the research presentation selected as the best poster at the Academic Yearday, Department of Medicine, Faculty of Health Sciences.

### **APPOINTMENTS**

- Jan 1980-Dec 1980: Intern, Tygerberg Hospital
- Jan 1981-Jun 1983: Medical Officer, Uitenhage Hospital
- Jul 1983-Jun 1987: Registrar, Internal Medicine, Tygerberg Hospital
- Jul 1987-Jun 1989: MRC Research training post, MRC Centre for Molecular and Cellular Biology, University of Stellenbosch
- Jul 1989-Oct 1989: Specialist, Cardiology, Department of Internal Medicine, Tygerberg Hospital
- Oct 1989-Dec 1991: Research Fellow, Laboratory of Cellular Biology of Hypertension, Clinical Research Institute of Montreal, Montreal, Canada
- Jan 1992-Dec 1995: Senior Specialist, Cardiology, Department of Internal Medicine, Tygerberg Hospital
- Jan 1996-Present: Professor, Cardiology, Department of Internal Medicine, University of Stellenbosch and Tygerberg Hospital

### **UNIVERSITY AND ACADEMIC ACTIVITIES**

- 1992-1993: Co-chairman, Committee of Specialists of the Tygerberg Academic Complex
- 1993-1998: Chairman, Research Committee of the Department of Internal Medicine, University of Stellenbosch and Tygerberg Hospital
- 1993-1995: Committee member, Academic Year Day Organizing Committee, Faculty of Medicine, University of Stellenbosch

1993-1994:	Committee member, Akademiese Geneeskundige Personeelvereniging (AGP), University of Stellenbosch Medical School
1994-1995:	National Secretary, The Southern African Cardiac Society
1995-present:	Member of the Faculty Board, Faculty of Medicine, University of Stellenbosch
1996-present:	Chairman, Tygerberg Branch, The South African Cardiac Society
1996-2003:	Editorial Board member, Cardiovascular Journal of South Africa
1997-1999:	President, South African Nuclear Cardiology Group
1999-present:	Executive committee member, South African Heart Association
1999-2003:	President, South African Heart Association.
2003-2004:	Immediate Past President, South African Heart Association.
2003-present:	Editor, SA Heart.
2012-present	Member of the Africa PCR Committee

## **PUBLICATIONS**

1. **Doubell AF.** The effect of calcium antagonists on atrial natriuretic peptide (ANP) release from the isolated rat heart during rapid cardiac pacing. *J Mol Cell Cardiology* 1989; 21: 437-440
2. **Doubell AF.** The "heartbeat" of the endocrine system. *S Afr J Sci* 1989; 85: 496
3. **Doubell AF.** The second messenger system(s) mediating the secretion of atrial natriuretic peptide (ANP) from the isolated rat heart during rapid cardiac pacing. *Life Sciences* 1989; 45: 2193-2200.
4. **Doubell AF, Greeff MP, Rossouw DJ, Weich HFH.** An electron microscopic analysis of the specific granule content of human atria – an investigation of the role of atrial pressure and atrial rhythm in the release of atrial natriuretic peptide. *S Afr Med J* 1990; 78: 207-211.
5. **Doubell AF, Bester AJ, Thiabault G.** Annexins V and VI: Major calcium-dependent atrial secretory granule binding proteins. *Hypertension* 1991; 18: 648-656.
6. **Thibault G, Doubell AF.** Binding and aggregation of pro-atrial natriuretic factor by calcium. *Am J Phys* 1992; 262: C907-C915.
7. **Doubell AF, Lazure C, Charbonneau C, Thibault G.** Identification and immunolocalization of annexins V and VI, the major cardiac annexins, in rat heart. *Cardiovasc Res* 1993; 27: 1359-1367.
8. **Doubell AF, Thibault G.** Calcium is involved in both positive and negative modulation of the secretory system for atrial natriuretic peptide. *Am J Phys* 1994; 266: H1854-H1863.
9. **Thibault G, Doubell AF, Garcia R, Lariviere R, Schiffrin EI.** Endothelin-stimulated secretion of natriuretic peptides by rat atrial myocytes is mediated by endothelin A receptors. *Circulation Res* 1994; 74: 460-470.

10. **Doubell AF**, Lazure C, Tremblay J, Thibault G. Identification of a calcium dependent atrial secretory binding protein as calmodulin. *Cardiovasc Res* 1994; 28: 705-709.
11. Restenosis: A round table discussion. Chairman: **AF Doubell**. Participants: HFH Weich, B Green, A Horack, IJ Sarembock and AJ Brink. *Cardiovasc J South Afr* 1995; 6: 110-117.
12. **Doubell AF**. Restenosis – the sense, the nonsense and the antisense of it all (Editorial). *Cardiovasc J South Afr* 1995; 6: 61-62.
13. Davids MR, **Doubell AF**. Restenosis after coronary angioplasty – a review of the pathogenesis and strategies for prevention. *Cardiovasc J South Afr* 1995; 6: 149-161.
14. Page C, **Doubell AF**. Mitogen activated protein kinase (MAPK) in cardiac tissues. *Mol and Cell Biochem* 1996; 157: 49-57.
15. Smedema JP, **Doubell AF**, Kalis N, Gie R. Congenital unilateral absence of a pulmonary artery (UAPA) as an isolated finding and UAPA with contralateral peripheral pulmonary artery stenosis. *Cardiovasc J South Afr* 1996; 86: C258-C261.
16. **Doubell AF**. A healthy endothelium: can it be bought or must it be earned: *Specialist Medicine* 1998; 20: 14-18.
17. Davids MR, Page C, Muller CJ, Rossouw DJ, **Doubell AF**. The role of the endothelium in the reduction of restenosis following balloon angioplasty. *S Afr Med J* 1998; 88: Cardiovascular suppl 5, C284-C293.
18. Smedema JP, **Doubell AF**. Cardiac sarcoidosis-value of magnetic resonance imaging. *Cardiovasc J South Afr* 2000; 11:218-222.
19. Pont K, Pretorius M, **Doubell AF**, Reuter H. Cardiovascular disease in systemic lupus erythematosus: The Tygerberg Hospital experience. *Cardiovasc J South Afr* 2000; 11:138-143.
20. **Doubell AF**. Cardiac disease: an update. Editorial *CME* 2000; 18:186.
21. Smedema JP, Katjita I, Reuter H, **Doubell AF**. Ewarts sign in tuberculous pericarditis. *South African Med J* 2000; 90: 1115.
22. Hall DR, Oliver J, Rossouw GJ, Grove D and **Doubell AF**. Pregnancy outcome in women with prosthetic heart valves. *J Obstetrics and Gynecology* 2001; 21: 149-153.
23. Smedema JP, Katjita I, Reuter H, Burgess L, Louw V, Pretorius M and **Doubell AF**. Twelve-lead electrocardiography in tuberculous pericarditis. *Cardiovasc J South Afr* 2001; 12: 31-34.
24. **Doubell AF**, Smedema JP. Congenital fistula between the LAD and right ventricle. *Neth Heart J* 2001; 9(7): 296
25. Burgess LJ, Reuter H, Taljaard JJF and **Doubell AF**. The role of biochemical tests in the diagnosis of large pericardial effusions. *Chest* 2002; 121: 495-499.
26. Smedema JP, Zondervan PE, Van Hagen P, ten Cate FJ, Bresser, P, **Doubell A.F.**, Pattynama, HC, Hoogsteden, A.H.M.M Balk. Cardiac sarcoidosis. Case –studies and a brief review of the literature. *Neth Heart J* 2002; 10(7/8): 318-325.

27. V.J. Louw, H. Reuter, JP. Smedema, I. Katjita, LJ Burgess, **A.F.Doubell**. Clinical experience with pericardiocentesis and extended drainage in a population with a high prevalence of HIV. *Neth Heart J* 2002; 10 (10): 399-406.
28. **AF. Doubell**. Managing the asymptomatic diabetic patient with silent myocardial ischaemia. *Cardiovasc J South Afr* 2002; 13: 189-193.
29. **Doubell AF**. Editorial. *Cardiology Forum* November 2002, 4.
30. Reuter H, **Doubell AF**. The role of new antibiotics in the management of infective endocarditis. *Cardiology Forum* 2002; 12-23.
31. Reuter H, **Doubell AF**. The management of tuberculous pericardial effusions. *Cardiology Forum* 2002; 50-58.
32. Burgess LJ, Reuter H, Carstens ME, Taljaard JJF, **Doubell AF**. The use of adenosine deaminase and interferon-gamma as diagnostic tools for tuberculous pericarditis. *Chest* 2002; 122: 900-905.
33. Burgess LJ, Reuter H, Carstens ME, Taljaard JJF, **Doubell AF**. Cytokine production in patients with tuberculous pericarditis. *Int J Tuberc Lung Dis* 2002; 6: 439-446.
34. Koegelenberg CFN, **Doubell AF**, Orth H and Reuter H. Infective endocarditis in the Western Cape Province of South Africa: a three-year prospective study. *Q J Med* 2003; 96: 217-225.
35. Freeman V, Mutatiri C, Pretorius M and **Doubell A**. Evaluation of left ventricular enlargement in the lateral position of the chest using the Hoffman and Rigler sign. *Cardiovasc J South Afr* 2003; 14: 134-137.
36. Taljaard JJ and **Doubell AF**. Prosthetic valve obstruction at Tygerberg Hospital between January 1991 and February 2001. *Cardiovascular J South Afr* 2003; 14: 182-188.
37. Burgess LJ and **Doubell AF**. Medical approach to deep vein thrombosis (DVT). *Specialist Forum* 2003; 3(9): 40-46.
38. Burgess LJ and **Doubell AF**. Medical approach to deep vein thrombosis (DVT). *Cardiology Forum* 2003; 3(3): 56-66
39. **Koegelenberg CF, Doubell AF, Orth H, Reuter H**. Infective endocarditis: improving the diagnostic yield. *Cardiovasc J South Afr*. 2004; 15(1):14-20.
40. **Doubell AF** Editorial. *SA Heart* 2004; 1(1); 4
41. **Doubell AF** Editorial. *SA Heart* 2004; 1(2); 4
42. Weich H, Burgess LJ, Reuter H, Brice EAW, **Doubell AF**. Large pericardial effusions due to SLE: a report of 8 cases. *Lupus*. 2005; 14(6):450-7.
43. Reuter H, Burgess LJ, **Doubell AF**. Epidemiology of pericardial effusions at a large academic hospital in South Africa. *Epidemiol Infect* 2005; 133(3):393-9.
44. Reuter H, Burgess LJ, **Doubell AF**. The role of chest radiography in diagnosing patients with tuberculous pericarditis. *Cardiovasc J South Afr* 2005; 16(2):108-11.
45. Reuter H, Burgess LJ, Carstens ME, **Doubell AF**. Adenosine deaminase activity – more than a diagnostic tool in tuberculous pericarditis. *Cardiovasc J South Afr* 2005; 16(3):143-7.
46. **Doubell AF**. Cardiology 2005 – Pumped with optimism. *Specialist Forum* 2005; 5(11): 66-67

47. Reuter H, Burgess LJ, Carstens M and **Doubell AF**. Characterization of the immunological features of tuberculous pericardial effusions in HIV positive and HIV negative patients in contrast with non-tuberculous effusions. *Tuberculosis* 2005; 86(2):125-133.
48. Mayosi BM, Burgess LJ and **Doubell AF**. Tuberculous pericarditis. *Circulation*. 2005; 112(23):3608-16.
49. Sorokin A, Weich H, **Doubell A**, Moolman JA. Bilateral ostial coronary stenosis and rheumatic aortic valve stenosis. *Acute Card Care*. 2006;8(2):113-5.
50. Reuter H, Burgess LJ, Schneider J, Van Vuuren W, **Doubell AF**. The role of histopathology in establishing the aetiology of pericardial effusions in the presence of HIV. *Histopathol* 2006; 48(3):295-302.
51. Reuter H, Burgess LJ, Louw V, **Doubell AF**. Experience with adjunctive corticosteroids in managing tuberculous pericarditis. *Cardiovasc J of South Afr* 2006; 17(5):233-8.
52. Reuter H, Burgess L, van Vuuren W, **Doubell A**. Diagnosing tuberculous pericarditis. *QJM*. 2006; 99(12):827-39.
53. **Doubell AF**. Reporting on heart disease in Africa. Editorial. *SAHeart* 2006; 3(4): 4.
54. **Doubell AF**. Latest trends in cardiac treatments. *Specialist Forum* 2006; 6(6):5-6.
55. Burgess LJ, Reuter H, **Sulzer N**, **Doubell AF**. The value of pericardiocentesis in tuberculous pericarditis. *SA Heart* 2006; 3(4): 48-54.
56. H Weich and **Doubell AF**. Pericardioscopy in tuberculous pericarditis. *SA Heart* 2006; 3(4); 72.
57. **Doubell AF**. Silent ischaemia in diabetics – do we want to know? *Specialist Forum* 2006; 6(11): 53-56.
58. Burgess LJ, Sulzer NU, **Doubell AF**. Primary prevention of atherosclerotic vascular disease. *CME Journal, SAMJ publications* 2006; 24(4):200-7.
59. Smedema JP, Truter R, de Klerk PA, Zaiman L, White L, **Doubell AF**. Cardiac sarcoidosis evaluated with gadolinium-enhanced magnetic resonance and contrast-enhanced 64-slice computed tomography. *Int J Cardiol*. 2006;112(2):261-3.
60. Reuter H, Burgess LJ, Louw VJ, **Doubell AF**. Experience with adjunctive corticosteroids in managing tuberculous pericarditis. *Cardiovasc J S Afr*. 2006;17(5):233-8.
61. Reuter H, Burgess LJ, Louw VJ, **Doubell AF**. The management of tuberculous pericardial effusion: experience in 233 consecutive patients. *Cardiovasc J S Afr*. 2007;18(1):20-5.
62. Du Toit R, Brice EA, Van Niekerk JD, **Doubell AF**. Mitral valve apparatus: echocardiographic features predicting the outcome of percutaneous mitral balloon valvotomy. *Cardiovasc J S Afr*. 2007; 18(3):159-64.
63. Commerford P, **Doubell A**. Cardiology – when to refer. *CME Journal of the Southern African Medical Association* 2007, 25; 520-525.
64. Burgess LJ and **Doubell A**. Medical Approach to Deep Vein Thrombosis (DVT). *SA Cardiology and Stroke*; 2008: 2 (2); 41-46

65. **Doubell AF**. Image in Cardiology – Pneumopericardium. *SA Heart* 2008; 5(1):35
66. Kotze D, Herbst P, **Doubell A**. Image in Cardiology – Retrocardiac pancreatic pseudocyst. *SA Heart* 2008; 5(3):131
67. Weich H and **Doubell AF**. Percutaneous heart valve interventions: a South African perspective. *SA Heart* 2009; 6(2):9-99
68. De Witt P, Irusen E.M. and **Doubell AF**. Is the heart half full or half empty – Image in Cardiology. *SA Heart* 2009; 6(2):120-121
69. **Doubell AF**, Swanevelder J, Weich H and Herbst P. 3D image of Inoue balloon inflation during mitral valvuloplasty. *SA Heart* 2009; 6(3):188-189
70. Kyriakakis C, Herbst P and **Doubell AF**. ARVC with associated lipoma – case report and images in Cardiology. *SA Heart* 2009; 6(4):238-241
71. Visagie C, Scheffer C, Lubbe WW and **Doubell AF**. Autonomous detection of heart sound abnormalities using an auscultation jacket. *Australasian Physical and Engineering Sciences in Medicine*. 2009; 32:240-250
72. Smuts AN, Blaine DC, Scheffer C, Weich H, **Doubell AF**, Dellimore KH. Application of finite element analysis to the design of tissue leaflets for a percutaneous aortic valve. *Journal of the Mechanical Behaviour of Biomedical Materials*. 2011; 4: 85-98
73. Hellmuth Weich, Christelle Ackermann, Hofmeyr Viljoen, Jacques van Wyk, Thomas Mabin and Anton F. Doubell. Transcatheter aortic valve replacement in a patient with an anomalous origin of the right coronary artery. *Catheterization and Cardiovascular Intervention*. 2011;78(7):1013-1016
74. Weich H, Janson J, van Wyk J, Herbst P, Le Roux P and **Doubell A**. Trans-jugular tricuspid valve-in-valve replacement. *Circulation*. 2011; 124(5): e157-60.
75. Esterhuysen A, van der Westhuizen K, **Doubell AF**, Weich H, Scheffer C. Application of the finite element method to the fatigue life prediction of a stent for a percutaneous heart valve. *Journal of Mechanics in Medicine and Biology*. 2012; 12(1):1-18
76. **Doubell AF**. TAVI in Africa - Destined for the townships or dashing for the "ivory towers"?. *SA Heart* 2012; 9(1): 2-5.
77. **Doubell AF**. The SA Heart Association Registry: time to SHARE your data. *SA Heart* 2012; 9(2) : 78-81.
78. Van Aswegen KHJ, Smuts AN, Scheffer C, Weich HSVH, **Doubell AF**. Investigation of leaflet geometry in a percutaneous aortic valve with the use of fluid-structure interaction simulation. *Journal of Mechanics in Medicine and Biology* 2012; 12(1): 1250003-1 - 1250003-15.
79. Van der Bijl P, Heradien M, **Doubell AF**, Brink PA. QTc prolongation prior to angiography predicts poor outcome and associates significantly with lower left ventricular ejection fractions and higher left ventricular end-diastolic pressures. *Cardiovascular Journal of Africa* 2012; 23(10): 541-545.
80. **Anton Doubell** and Philip Herbst. Eisenmenger's Syndrome in South Africa. In: Kaemmerer H, Niwa K, Oechslin E, Ewert P, Webb GD, Hess J (eds). Pulmonary Arterial Hypertension in Congenital Heart Disease: Eisenmenger's Syndrome – A Global Perspective. Bremen: Uni-Med 2013: 87-89.



81. Jane Moses, **Anton F Doubell**, Philip G Herbst, Karl JC Klusmann, Hellmuth SVH Weich. Non-ST Elevation Myocardial Infarction (NSTEMI) in Three Hospital Settings in South Africa. Does Geography influence Management and Outcome? A Retrospective Cohort Study. *Cardiovascular Journal of Africa* 2013 2013, 24; 110-116.
82. Kemp I, Dellimore K, Rodriguez R, Scheffer C, Blaine D, Weich H and **Doubell A**. Experimental validation of the fluid–structure interaction simulation of a bioprosthetic aortic heart valve. *Australas Phys Eng Sci Med* (2013) 36:363–373

### **PRESENTATIONS/PUBLISHED PROCEEDINGS**

1. **Doubell AF**, Greeff MP, Rossouw DJ, Weich HFH. The stimulus for atrial natriuretic peptide release: A clinical-pathological study based on electron microscopic analysis of the specific granule content of human atria. The 15<sup>th</sup> Biennial Congress of the Southern African Cardiac Society, Bophuthaswana 1986.
2. **Doubell AF**. Control of atrial natriuretic peptide secretion. The South African Physiology Congress, Cape Town 1988.
3. **Doubell AF**. Control of atrial natriuretic peptide (ANP) secretion: The role of calcium in mediating the pacing induced secretion of ANP. The 16<sup>th</sup> Biennial Congress of the Southern African Cardiac Society, Cape Town 1988.
4. **Doubell AF**. Control of atrial natriuretic peptide secretion. South African Biochemistry Congress, Wilderness 1988.
5. **Doubell AF**, Bester AJ, Thibault G. Calcium and the release of atrial natriuretic peptide: Isolating calcium-binding proteins interacting with atrial specific granules. 7<sup>th</sup> International Symposium on Calcium Binding Proteins in Health and Disease, Banff, Alberta, Canada 1990.
6. **Doubell AF**, Bester AJ, Thibault G. Cardiac calcium-binding proteins and the release of atrial natriuretic peptide. Ottawa symposium on atrial natriuretic factor: “A decade of ANF research”, International Hypertension Society Satellite Symposium, Ottawa, Ontario, Canada 1990.
7. **Doubell AF**, Lazure C, Charbonneau C, Thibault G. Isolation, identification and immunolocalisation of cardiac annexins. UCSD Asilomar Conference: “Molecular and Cellular Biology of the cardiac myocyte”, San Francisco, USA 1991.
8. **Doubell AF**, Thibault G. Co-secretion of brain and atrial natriuretic peptides by neonatal cardiocytes in culture. 14<sup>th</sup> Scientific meeting of the International Society of Hypertension, Madrid, Spain 1992.
9. Davids MR, Page C, Muller CJF, Rossouw DJ, **Doubell AF**. Establishment of a model to study the role of the endothelium in the prevention of restenosis following balloon angioplasty. The 19<sup>th</sup> Biennial Congress of the Southern African Cardiac Society, Cape Town 1994.

10. Page C, **Doubell AF**. MAP-kinase (MAPK) activation in atrial myocytes (AM) – interaction with the ANP secretory system. The XV<sup>th</sup> Congress of the International Society for Heart Research. Prague, Czech Republic 1995.
11. Prozesky HW, **Doubell AF**. The diagnostic and prognostic value of single laboratory investigations in infective endocarditis. The 20<sup>th</sup> Biennial Congress of the Southern African Cardiac Society, Wild Coast 1996.
12. Page C, **Doubell AF**. Kinase mediated adaptive response of the cardiac myocyte to ischaemia and reperfusion. The 20<sup>th</sup> Biennial Congress of the Southern African Cardiac Society, Wild Coast 1996.
13. Page C, **Doubell AF**. Kinase mediated adaptive response of the cardiac myocyte. FEBS Special meeting on cell signalling mechanisms. Amsterdam, 1997.
14. Page C, **Doubell AF**. Kinase mediated adaptive response of the cardiac myocyte. The 18<sup>th</sup> meeting of the International Society for Heart Research, Versailles, France 1997.
15. Smedema JP, **Doubell AF**. Magnetic resonance imaging in the evaluation of congenital coronary fistulas. The 21<sup>st</sup> Biennial Congress of the Southern African Cardiac Society, Durban 1998. *Cardiovasc J South Afr* 1998; 5: c327.
16. Reuter H, Burgess LJ, Corbett C, Louw V, **Doubell AF**. Idiopathic pericarditis – Quo Vadis? The 21<sup>st</sup> Biennial Congress of the Southern African Cardiac Society, Durban 1998. *Cardiovasc J South Afr* 1998; 5: c320.
17. Reuter H, Burgess LJ, Corbett C, Louw V, **Doubell AF**. Human immunodeficiency virus associated TB pericarditis. The 21<sup>st</sup> Biennial Congress of the Southern African Cardiac Society, Durban 1998. *Cardiovasc J South Afr* 1998; 5:c321
18. Burgess LJ, Reuter H, Carstens ME, Taljaard JJF, **Doubell AF**. The diagnostic value of adenosine deaminase (ADA) and gamma-interferon ( $\Psi$ -IFN) in tuberculous pericarditis. The 21<sup>st</sup> Biennial Congress of the Southern African Cardiac Society, Durban 1998. *Cardiovasc J South Afr* 1998; 5: C328.
19. Jenkins K, Engelbrecht A, Page C, Lochner A, **Doubell AF**. Investigation into the mechanisms of stress-activated protein kinase (JNK) activation in neonatal ventricular myocytes during ischaemia/reperfusion. The 21<sup>st</sup> Biennial Congress of the Southern African Cardiac Society, Durban 1998. *Cardiovasc J South Afr* 1998; 5:c328
20. Pont K, Reuter H, Van Niekerk J, Du Toit M, **Doubell AF**. Valvular heart disease in systemic lupus erythematosus. The 21<sup>st</sup> Biennial Congress of the Southern African Cardiac Society, Durban 1998. *Cardiovasc J South Afr* 1998; 5: c327.
21. Louw VJ, Reuter H, Corbett C, Van Niekerk J, **Doubell AF**. The preferred route of administration for steroid therapy in pericardial disease. The 21<sup>st</sup> Biennial Congress of the Southern African Cardiac Society, Durban 1998. *Cardiovasc J South Afr* 1998;5: c327
22. Jenkins K, Engelbrecht A, Page C, Lochner A, **Doubell AF**. Investigation into the mechanisms of stress-activated protein kinase (JNK) activation in neonatal ventricular myocytes during ischaemia/reperfusion. The XV<sup>th</sup> World Congress of

- the International Society for Heart Research, Rhodes, Greece 1998. *Journal of Molecular and Cellular Cardiology* 1998; 30: A418.
23. Burgess LJ, Reuter H, Carstens ME, Taljaard JJF, **Doubell AF**. The diagnostic value of adenosine deaminase (ADA) and gamma-interferon ( $\Psi$ -IFN) in tuberculous pericarditis. The XV<sup>th</sup> World Congress of the International Society for Heart Research, Rhodes, Greece 1998. *Journal of Molecular and Cellular Cardiology* 1998; 30: A65.
  24. Moolman JA, Marais E, Genade S, **Doubell AF**, Lochner A.  $\beta$ -adrenergic and ischaemia-reperfusion induced protection against ischaemia may relate to  $\beta$ -adrenergic activation of p38 MAP kinase in rat heart. 1<sup>st</sup> Oslo Conference on Molecular Cardiology and Myocardial Function, Oslo, Norway, May 24-26 1999.
  25. Page C, Jenkins K, Engelbrecht AM, Burger H, Patience T, **Doubell AF**. Inhibitory effect of carvedilol on ischaemia-reperfusion injury in neonatal ventricular myocytes. 27<sup>th</sup> Annual Congress of the Physiology Society of Southern Africa, Stellenbosch 1999.
  26. Pont K, Pretorius MM, **Doubell AF**, Reuter H. The cardiovascular involvement in patients with systemic lupus erythematosus. Poster presentation at African League Against Rheumatism (AFLAR) and South African Arthritis and Rheumatism Association (SAARA) Meeting in Stellenbosch, September 1999.
  27. Reuter H, Biebuyck A, **Doubell AF**. The role of tuberculosis in the pathogenesis of Takayasu's arteritis. Poster presentation at African League Against Rheumatism (AFLAR) and South African Arthritis and Rheumatism Association (SAARA) Meeting in Stellenbosch, September 1999.
  28. Burgess LF, Reuter H, Carstens ME, Taljaard JJF, **Doubell AF**. The role of cytokines in the immunopathogenesis of tuberculous pericarditis. The 1<sup>st</sup> Congress of the South African Heart Association, Stellenbosch, South Africa 2000. *Cardiovasc J South Afr* 2000; 5:292.
  29. Koegelenberg CFN, **Doubell AF**, Beale MW, Wasserman E, Orth H, Van Dyk D, Pretorius MM, Prozesky HW, Jacobs A and Reuter H. Enhancing the diagnostic process in suspected infective endocarditis. The 1<sup>st</sup> Congress of the South African Heart Association, Stellenbosch, South Africa 2000. *Cardiovasc J South Afr* 2000; 11: 275.
  30. Louw VJ, Reuter H, Smedema JP, Katjita I, Burgess LJ **Doubell AF**. Clinical experience with echocardiographically guided pericardiocentesis and extended drainage in a population with a high prevalence of HIV infection. The 1<sup>st</sup> Congress of the South African Heart Association, Stellenbosch, South Africa 2000. *Cardiovasc J South Afr* 2000; 5: 292.
  31. Carstens ME, Burgess LJ, Reuter H, **Doubell AF**, Taljaard JJF. Does ADA isoenzyme determination enhance the diagnostic value of ADA in pericardial tuberculous effusions? The 41<sup>st</sup> Annual Congress of the Federation of South African Societies of Pathology, Bantry Bay, Cape Town 01-04 July 2001.
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33. Koegelenberg CFN, **Doubell AF**, Beale MW, Wasserman E, Orth H, Reuter H. Infective Endocarditis in the Western Cape of South Africa. 3<sup>rd</sup> Congress of the South African Heart Association, Sun City, South Africa 2002. *Cardiovasc J South Afr*. 2002, 13(5): 256-257.
34. Koegelenberg CFN, **Doubell AF**, Orth H, Reuter H, Pretorius MM. Infective Endocarditis: Improving the diagnostic yield. 3<sup>rd</sup> Congress of the South African Heart Association, Sun City, South Africa 2002. *Cardiovasc J South Afr* 2002, 13(5): 257.
35. Du Toit R, Brice EAW, Van Niekerk JD and **Doubell AF**. Echocardiographic features predicting the outcome of percutaneous mitral balloon valvuloplasty. 4<sup>th</sup> Congress of the South African Heart Association, Cape Town, South Africa 2003. *Cardiovascular J South Afr* 2003, 14(5): 269.
36. Reuter H, Burgess L, Carstens ME, Sulzer NU and **Doubell AF**. Interpretation of ADA in pericardial effusions. Presented at the 44<sup>th</sup> Annual PathSplash Conference, 4-7 July 2004, Stellenbosch, South Africa.
37. Maduramuthu M, Cyster HP and **Doubell AF**. Evaluation of left atrial size as a predictor for the outcomes of percutaneous mitral valvuloplasty in patients with severe mitral stenosis. 6<sup>th</sup> Congress of the South African Heart Association, Durban 2005. *SAMJ* 2005; 95(10): 811.
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41. Heradien M, Fredericks P, Louw I, Schaafsma E, **Doubell AF**. QT prolongation > 460ms prior to coronary angiography predicts poorer LV systolic function and increased 6-month mortality. 8<sup>th</sup> Congress of the South African Heart Association, *SAMJ* 2007; 97(11): 1095.
42. Dalwai M, Burgess LJ, **Doubell AF**. Diagnosing pericardial effusions. 8<sup>th</sup> Congress of the South African Heart Association, *SAMJ* 2007; 97(11): 1093.
43. **Doubell AF**, Lalla U, Harrow P, Hoffman S. Percutaneous balloon mitral valvuloplasty (PBMV) in pregnancy at Tygerberg Hospital, South Africa – A ten year retrospective audit. 9<sup>th</sup> Congress of the South African Heart Association, Wild Coast Sun, South Africa 2008. *SA Heart* 2008; 5:218
44. Mbonambi AL, Herbst PG, Cyster HP, **Doubell AF**. Assessing rheumatic mitral stenosis (MS) with the proximal isovelocity surface area (PISA) method in patients varying in mitral stenosis severity. 9<sup>th</sup> Congress of the South African

- Heart Association, Wild Coast Sun, South Africa 2008. *SA Heart* 2008; 5:224
45. Van der Bijl P, Heradien M, Louw I, Fredericks P, Schaafsma E and **Doubell A**. QTc prolongation prior to coronary angiography is associated with poorer cardiac systolic and diastolic function and increased mortality. 9<sup>th</sup> Congress of the South African Heart Association, Wild Coast Sun, South Africa 2008. *SA Heart* 2008; 5:248
  46. **Doubell AF**, Lalla U, Weich H and Herbst P. Mitral stenosis in pregnancy. 10<sup>th</sup> Congress of the South African Heart Association, Sun City, South Africa 2009. *SA Heart* 2009; 6:261
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  48. W.W.Lubbe, J.S.F.Botha, H.S.Weich, P.G.Herbst, I.B.Louw, H.L.Koekemoer, C.Scheffer, **A.F.Doubell**. Recognition of Cardiac Abnormalities with the Aid of a Precordial Auscultation Device. 10<sup>th</sup> Congress of the South African Heart Association, Sun City, South Africa 2009. *SA Heart* 2009; 6:275
  49. F.M Claassen; A.L Mbonambi; P.G Herbst; **A.F Doubell**. Assessing Rheumatic Mitral Stenosis with the Proximal Isovelocity Surface area (PISA) method: Validation of the PISA method against the invasive gold standard (Gorlin formula). 10<sup>th</sup> Congress of the South African Heart Association, Sun City, South Africa 2009. *SA Heart* 2009; 6:260
  50. C.G. Kyriakakis, H Weich, **A.F. Doubell**. Percutaneous pericardioscopy in tuberculous pericarditis – improving the diagnostic yield. 10<sup>th</sup> Congress of the South African Heart Association, Sun City, South Africa 2009. *SA Heart* 2009; 6:272
  51. Sareli LY and **Doubell AF**. Crystal methamphetamine use and myocardial pathology. 10<sup>th</sup> Congress of the South African Heart Association, Sun City, South Africa 2009. *SA Heart* 2009; 6:272
  52. Kyriakakis CG, Weich H, **Doubell AF**. Percutaneous pericardioscopy and pericardial biopsy in suspected tuberculous : avoiding unnecessary anti-tuberculous therapy. 11<sup>th</sup> Congress of the South African Heart Association, Sun City, South Africa 2010. *SA Heart* 2010; 7:208
  53. Ahmed S, Herbst PG, Cyster H, **Doubell AF**. What causes left atrial spontaneous echocardiographic contrast (LASEC)? Is it stasis, turbulence or both? 11<sup>th</sup> Congress of the South African Heart Association, Sun City, South Africa 2010. *SA Heart* 2010; 7:191
  54. Lubbe WW, Cyster H, **Doubell AF**. Sinus of Valsalva aneurysm and left ventricular non-compaction: Is there a link? 11<sup>th</sup> Congress of the South African Heart Association, Sun City, South Africa 2010. *SA Heart* 2010; 7:211
  55. Weich H, Ackermann C, Viljoen H, **Doubell AF**. First case of a transcatheter aortic valve implantation (TAVI) in a patient with an anomalous origin of the right coronary artery. 11<sup>th</sup> Congress of the South African Heart Association, Sun City, South Africa 2010. *SA Heart* 2010; 7:229

56. Charles G. Kyriakakis, Helmuth Weich and **Anton F. Doubell**. Percutaneous pericardioscopy in tuberculous pericarditis: improving the diagnostic yield. 12<sup>th</sup> Congress of the South African Heart Association, East London, South Africa 2011. *SAHeart* 2011; 8(4): 238
57. Wayne Lubbe, **Anton F. Doubell** and Philip Herbst. Pericardial Constriction: Haemodynamics in a nutshell. 12<sup>th</sup> Congress of the South African Heart Association, East London, South Africa 2011. *SAHeart* 2011; 8(4): 240
58. Zane Stevens and **Anton F. Doubell**. Retrospective audit of percutaneous balloon mitral valvuloplasty: Experience over the last 14 years at Tygerberg Hospital. 12<sup>th</sup> Congress of the South African Heart Association, East London, South Africa 2011. *SAHeart* 2011; 8(4): 25
59. Kyriakakis CG, Weich HS and Doubell AF. Percutaneous pericardioscopy in tuberculous pericarditis: improving the diagnostic yield. ESC Congress, Paris 2011. *European Heart Journal* 2011; 32 (suppl): 487
60. Philip G. Herbst, Zaheera Cassimjee, Alfonso J.K. Pecoraro and **Anton F. Doubell**. Overcoming the limitations of current echocardiographic criteria used in the diagnosis of subclinical rheumatic heart disease. 13<sup>th</sup> congress of the South African Heart Association, Sun City, South Africa 2012. *SAHeart*. 2012; 9(3):175
61. J. Moses, **A.F. Doubell**, P.G. Herbst, K.J.C. Klusmann and H.S.V.H. Weich, Non-ST elevation myocardial infarction in three hospital settings in South Africa. Does level of care influence management and outcome? A retrospective cohort study. 13<sup>th</sup> congress of the South African Heart Association, Sun City, South Africa 2012. *SAHeart*. 2012; 9(3):186
62. Alfonso Pecoraro, Zaheera Cassimjee, Philip Herbst and **Anton Doubell**. Morphologic assessment of the rheumatic mitral valve. 13<sup>th</sup> congress of the South African Heart Association, Sun City, South Africa 2012. *SAHeart*. 2012; 9(3):191
63. **Anton Doubell**. Valve lesions in pregnancy. Refresher Course, Department of Medicine, Stellenbosch University. Lord Charles, Somerset West. South Africa. 2013.
64. **Anton Doubell**. Mitral stenosis. SUNecho course. Stellenbosch. South Africa. 2013.
65. **Anton Doubell**. When to do Percutaneous Mitral Balloon Valvuloplasty. 6th World Congress of Paediatric Cardiology and Cardiac Surgery. Cape Town. South Africa. 2013.
66. **Anton Doubell**. Percutaneous Mitral Balloon Valvuloplasty: Patient selection and technique. 6th World Congress of Paediatric Cardiology and Cardiac Surgery. Cape Town. South Africa. 2013.
67. **Anton Doubell**. Introduction to Doppler. Bloemfontein Trans-oesophageal Echocardiography course. Bloemfontein. 2013.
68. **Anton Doubell**. Mitral valve assessment. Bloemfontein Trans-oesophageal Echocardiography course. Bloemfontein. 2013.
69. **Anton Doubell**. Left ventricular systolic function assessment. Bloemfontein Trans-oesophageal Echocardiography course. Bloemfontein. 2013.

70. Jacques Doubell, Philip Herbst, Alfonso Pecoraro, Coenraad Koegelenberg and **Anton Doubell**. Pulmonary haemosiderosis secondary to severe mitral stenosis in patients undergoing mitral valvuloplasty at Tygerberg Hospital. 6<sup>th</sup> World Congress of Paediatric Cardiology and Cardiac Surgery. *SA Heart* 2013; 10(1): 288
71. Jacques Liebenberg, Philip Herbst and **Anton Doubell**. Rheumatic fever: A South African perspective. Adherence, notification and secondary prophylaxis. 6<sup>th</sup> World Congress of Paediatric Cardiology and Cardiac Surgery. *SA Heart* 2013; 10(1): 310
72. Everhardus Smith, Hellmuth Weich and **Anton Doubell**. Improving the diagnostic yield of the ECG in tachyarrhythmias by routinely performing Lewis Lead recordings. 6<sup>th</sup> World Congress of Paediatric Cardiology and Cardiac Surgery. *SA Heart* 2013; 10(1): 289
73. Herbst PG, Pecoraro AJK, Cassimjee Z and **Doubell AF**. Diagnosis and assessment of subclinical rheumatic valve disease. 6<sup>th</sup> World Congress of Paediatric Cardiology and Cardiac Surgery. *SA Heart* 2013; 10(1): 356
74. Bovijn J, **Doubell AF** and Herbst PG. Identifying predictors of mitral valve (MV) tears resulting from percutaneous balloon mitral valvuloplasty (PBMV). 6<sup>th</sup> World Congress of Paediatric Cardiology and Cardiac Surgery. *SA Heart* 2013; 10(1): 130
75. Pieter van der Bijl, Marshall Heradien, Paul Brink and **Anton Doubell**. QTc prolongation prior to angiography predicts poor outcome and associates significantly with lower left ventricular ejection fractions and higher left ventricular end-diastolic pressures. 6<sup>th</sup> World Congress of Paediatric Cardiology and Cardiac Surgery. *SA Heart* 2013; 10(1): 241

#### **ANNUAL ACADEMIC DAY PRESENTATIONS, FACULTY OF HEALTH SCIENCES, UNIVERSITY OF STELLENBOSCH**

1. Louw J.H., Wranz P.A.B, Burgess L., Victor T, Pretorius J, en **Doubell AF**. Optimalisering van die diagnostiese protokol in vermoedelik tuberkuleuse (TB) perikardiale effusies. 1996.
2. Prozesky H.W. en **Doubell AF**. The diagnostic and prognostic value of single value laboratory investigations in infective endocarditis. 1996.
3. **Doubell AF**, Davids MR, Page C. Koronêre ballon-angioplastiek: Kitsoplossing vir iskemiese hartsiekte of kortpad na herstenose? 1996.
4. Reuter H, Burgess L, Louw H, Pretorius J, Wrantz and **Doubell AF**. Etiology of clinically significant pericardial effusions. 1997.

5. Smedema JP and **Doubell AF**. Magnetic resonance imaging in the evaluation of congenital coronary fistulas. 1997.
6. Reuter H, Burgess L, Louw H, and **Doubell AF**. The association of infection with the human immuno-deficiency virus and tuberculous pericardial effusions. 1997.
7. Page C, Lochner A, and **Doubell AF**. Kinase mediated adaptive response of the cardiac myocyte to ischaemia and reperfusion. 1997.
8. Burgess L, Reuter H, Carstens ME, Taljaard JJF and **Doubell AF**. The diagnostic value of adenosine deaminase (ADA) and gamma-interferon(gamma-IFN) in tuberculous pericarditis. 1998.
9. Jenkins K, Engelbrecht A, Page C, Lochner A, and **Doubell AF**. Investigation into the mechanism of stress-activated protein kinase (JNK) activation in neonatal ventricular myocytes during ischaemia/reperfusion. 1998.
10. Pont K, Reuter H, Van Niekerk J, Du Toit M and **Doubell AF**. Hartklepaantasting in sistemiese lupus eritematose (SLE).
11. Louw VJ, Reuter H, Corbett C, Van Niekerk J, and **Doubell AF**. The preferred route of administration for steroid therapy in pericardial disease. 1998.
12. Reuter H, Burgess LJ, Carstens ME, Taljaard JJF and **Doubell AF**. The role of cytokines in the immunopathogenesis of tuberculous pericardial disease. 1999.
13. Katjitaie I, Smedema JP, Reuter H, Pretorius M and **Doubell AF**. Tuberculous pericarditis at Tygerberg hospital. 1999.
14. Louw VJ, Reuter H, Corbett C, Burgess L and **Doubell AF**. Two-dimensional echocardiographically guided pericardiocentesis: Experience in 132 consecutive patients with clinically significant pericardial effusions. 1999.
15. Katjitaie I, Smedema JP, Reuter H, Pretorius M and **Doubell AF**. The comparison of ECG findings and markers of inflammation in patients with tuberculous pericarditis. 1999.
16. Katjitaie I, Smedema JP, Reuter H, Pretorius M and **Doubell AF**. The diagnosis of cardiac tamponade by 12 lead ECG. 1999.
17. Katjitaie I, Smedema JP, Reuter H, Pretorius M and **Doubell AF**. The ECG findings in 93 patients with tuberculous pericarditis. 1999.
18. Reuter H, Biebuyck A, **Doubell AF**. The role of tuberculosis in the pathogenesis of Takayasu's arteritis. 1999.
19. Burgess L, Carstens ME, Reuter H, **Doubell AF**, Taljaard JJF and Maritz FJ. The significance of adenosine deaminase (ADA) in tuberculous exudates. 1999.
20. Mutatiri C, **Doubell AF**, Pretorius M and Freeman V. Evaluation of left ventricular enlargement in the lateral position of the chest using the Hoffman and Rigler sign. 2000
21. Louw VJ, Reuter H, Smedema JP, Katjitaie I, Burgess LJ, **Doubell AF**. Clinical experience with echocardiographically guided pericardiocentesis and extended drainage in a population with a high prevalence of HIV infection. 2000
22. Koegelenberg CFN, **Doubell AF**, Beale MW, Wasserman E, Orth H, Van Dyk D, Pretorius MM, Prozesky HW, Jacobs A and Reuter H. Infective endocarditis: A South African perspective on diagnosis. 2000



23. Taljaard JJ, **Doubell AF**. 2001 Prosthetic valve obstruction at TBH (1991-2000).
24. Reuter H, Burgess L, Pretorius M, Louw V, Jacobs A, Carstens M, **Doubell AF**. The immunopathogenesis of tuberculous pericardial effusions. 2001
25. Carstens ME, Burgess LJ, Reuter H, **Doubell AF**. Does ADA isoenzyme determination enhance the diagnostic value of ADA in TB? 2001
26. Van Vuuren W, Reuter H, Burgess L, Schneider JW, **Doubell AF**. The role of pericardial biopsy in diagnosing large pericardial effusions. 2001
27. Reuter H, Koegelenberg CFN, Orth H, Prozesky HW, **Doubell AF**. The Epidemiology and management of infective endocarditis. 2001
28. Reuter H, **Doubell AF**. The Immunopathogenesis and Management of Tuberculous Pericardial Effusions. 2002
29. Reuter H, Koegelenberg CFN, Orth H, Prozesky HW, **Doubell AF**. The epidemiology and management of infective endocarditis. 2002
30. Du Toit R, Brice EAW, Van Niekerk JD and **Doubell AF**. Echocardiographic features predicting the outcome of percutaneous mitral balloon valvuloplasty. 2003
31. Du Toit R, Brice EAW, Van Niekerk JD, **Doubell AF**. Echocardiographic features predicting the outcome of percutaneous mitral balloon valvotomy. 2004
32. Maduramuthu M, Cyster HP and **Doubell AF**. Evaluation of left atrial size as a predictor for the outcomes of percutaneous mitral valvuloplasty in patients with severe mitral stenosis. 2005.
33. Dalwai MK, Burgess LJ, **Doubell AF**. Diagnosing pericardial effusions. 2007.
34. Wildervanck PJ, Carstens M, **Doubell AF**. The use of pro-B type natriuretic peptide (proBNP) and atrial natriuretic peptide (ANP) to assist in predicting the outcome of patients undergoing percutaneous balloon mitral valvuloplasty (PBMV). 2007.
35. Lalla U, Harrow P, **Doubell A**. Percutaneous balloon mitral valvuloplasty in pregnancy at Tygerberg hospital – a retrospective audit over five years. 2007.
36. Recognition of cardiac abnormalities with the aid of the precordial auscultation device. Lubbe WW, Visagie C, Koekemoer D, Weich H, Singh S, Scheffer C, **Doubell AF**. 2007.
37. Percutaneous balloon mitral valvuloplasty (PBMV) in pregnancy at Tygerberg Hospital, South Africa – A ten year retrospective audit. **Doubell AF**, Lalla U, Harrow P, Hoffman S. 2008.
38. QTc prolongation prior to coronary angiography is associated with poorer cardiac systolic function and increased mortality. Van der Bijl P, Heradien MJ, Louw I, Fredericks P, Schaafsma E, **Doubell A**. 2008.
39. The use of proBNP and ANP in predicting the outcome of percutaneous balloon mitral valvuloplasty (PBMV). Wildervanck PJ, Carstens M, **Doubell AF**. 2008.
40. Assessing rheumatic mitral stenosis (MS) with the proximal isovelocity surface area (PISA) method in patients varying in mitral stenosis severity. Mbonambi AL, Herbst PG, Dr Cyster HP, **Doubell AF**. 2008.
41. K. Majola, M. Heradien, A. Goosen, P. van der Bijl, P. Brink and **A Doubell**. Comparison of PCI and CABG in shortening the QTc interval, and correlation

- with the incidence of sudden cardiac death. 2009.
42. W.W.Lubbe, J.S.F.Botha, H.S.Weich, P.G.Herbst, I.B.Louw, H.L.Koekemoer, C.Scheffer, **A.F.Doubell**. Recognition of Cardiac Abnormalities with the Aid of a Precordial Auscultation Device. 2009.
  43. F.M Claassen; A.L Mbonambi; P.G Herbst; **A.F Doubell**. Assessing Rheumatic Mitral Stenosis with the Proximal Isovelocity Surface area (PISA) method: Validation of the PISA method against the invasive gold standard (Gorlin formula). 2009.
  44. Kyriakakis CG, Weich H, **Doubell AF**. Percutaneous pericardioscopy in tuberculous pericarditis – improving the diagnostic yield. 2009.
  45. Kyriakakis CG, Weich H, **Doubell AF**. Percutaneous pericardioscopy and pericardial biopsy in suspected tuberculous: avoiding unnecessary anti-tuberculous therapy. 2010.
  46. Ahmed S, Herbst PG, Cyster H, **Doubell AF**. What causes left atrial spontaneous echocardiographic contrast (LASEC)? Is it stasis, turbulence or both? 2010.
  47. Lubbe WW, Cyster H, **Doubell AF**. Sinus of Valsalva aneurysm and left ventricular non-compaction: Is there a link? 2010.
  48. Kyriakakis CG, Weich HSVH and **Doubell AF**. Percutaneous pericardioscopy in tuberculous pericarditis: Improving the diagnostic yield. 2011.
  49. Stevens ZD and **Doubell AF**. Retrospective audit of percutaneous balloon mitral valvuloplasty: Experience over the last 14 years at Tygerberg Hospital. 2011.
  50. Van Der Bijl P, Heradien M, Brink PA and **Doubell AF**. QTc prolongation prior to angiography predicts poor outcome and associates significantly with lower left ventricular ejection fractions and higher left ventricular end-diastolic pressure. 2011.
  51. Philip G. Herbst, Zaheera Cassimjee, Alfonso J.K. Pecoraro and **Anton F. Doubell**. Overcoming the limitations of current echocardiographic criteria used in the diagnosis of subclinical rheumatic heart disease. 2012.
  52. J. Moses, **A.F. Doubell**, P.G. Herbst, K.J.C. Klusmann and H.S.V.H. Weich, Non-ST elevation myocardial infarction in three hospital settings in South Africa. Does level of care influence management and outcome? A retrospective cohort study. 2012.
  53. Alfonso Pecoraro, Zaheera Cassimjee, Philip Herbst and **Anton Doubell**. Morphologic assessment of the rheumatic mitral valve. 2012.
  54. Jacques Doubell, Philip Herbst, Alfonso Pecoraro, Coenraad Koegelenberg and **Anton Doubell**. Pulmonary haemosiderosis secondary to severe mitral stenosis in patients undergoing mitral valvuloplasty at Tygerberg Hospital. 2013.
  55. Jacques Liebenberg, Philip Herbst and **Anton Doubell**. Rheumatic fever: A South African perspective. Adherence, notification and secondary prophylaxis. 2013.
  56. Everhardus Smith, Hellmuth Weich and **Anton Doubell**. Improving the diagnostic yield of the ECG in tachyarrhythmias by routinely performing Lewis Lead recordings. 2013.
  57. Pecoraro A, Herbst P, Cassimjee Z and **Doubell A**. Morphologic assessment of the rheumatic mitral valve. 2013

## **CLINICAL TRIAL EXPERIENCE**

1. 1997 TO 2000: Parke-Davis. *Myocardial Ischaemia Reduction with Aggressive Cholesterol Lowering (**MIRACL**) with atorvastatin in patients with unstable angina or non Q wave myocardial infarction.* Protocol 981-105.
2. 1998: Quintiles/Searle. *Efficacy and safety of Xemlifoban HCl (SC-54684A) administered to patients undergoing coronary angioplasty or stent placement (**EXCITE study**).* Protocol IG7-96-02-017.
3. 1998: Bristol-Myers Squibb. *Double-blind, randomized multicentre trial of single bolus lanoteplase versus accelerated alteplase for the treatment of subjects with acute myocardial infarction (**In Time-II study**).* Protocol CV 142-003.
4. 1998-1999: Quintiles/Roche. *The **Symphony study**: A randomized, double-blind, aspirin-controlled trial with two doseregimens of Sibrafiban (Ro-48-3657), an oral platelet glycoprotein IIb/IIIa antagonist, in patient following an acute coronary syndrome.* Protocol BC 155-74A.
5. 1998-1999 : Quintiles/G/ D. Searle and Co. *The **OPUS-TIMI 16 study**: A phase III international randomised, double-blind placebo-controlled trial evaluating the efficacy and safety of orbofiban in patients with unstable coronary syndromes.* Protocol I59-97-02-026.
6. 1999-date: BMS. *A multicenter, randomized, double-blind study of the efficacy and safety of **Omapatrilat** (BMS-186716) and Enalapril in the treatment of subjects with severe hypertension and the long-term open-label extension.* Protocol CV 137-049.
7. 1999: Bristol-Myers Squibb. ***In-Time IIb study** : Open-label, multicentre trial of single-bolus lanoteplase for the treatment of patients with acute myocardial infarction.* Protocol CV 142-003.
8. 1999-date: Quintiles/Medco. *A randomized, double-blind, placebo-controlled, multicentre trial to evaluate the efficacy and safety of adenosine (Pallacor®, adenosine injection) as an adjunct to reperfusion therapy (thrombolysis or mechanical reperfusion) in the treatment of acute myocardial infarction.* Protocol no : **Amistad II.**
9. 2000-date: Parke-Davis. *Two year efficacy trial to evaluate the effects of Avasimibe on the progression of coronary atherosclerotic lesions as measured by intravascular ultrasound and coronary angiography (**A-Plus**).* Protocol 10111-050.
10. 1999-date: Astra-Zeneca. *Candersartan cilexetil (candersartan) in heart failure assessment of reduction in mortality and morbidity (**Charm**).*
  - Clinical study (SH-AHS-0003) of candersartan in patients with heart failure who are ace inhibitor intolerant and have depressed left ventricular systolic function.
  - Clinical study (SH-AHS-0006) of candersartan in patients with heart failure who are treated with ace inhibitors and have depressed left ventricular systolic function.

- Clinical study (SH-AHS-0007) of candesartan in patients with heart failure and preserved left ventricular systolic function.
11. 1999-date: MSD. *A randomised, parallel, double-blind, safety study of enoxaparin versus unfractionated heparin in tirofiban and aspirin-treated patients with unstable angina/non Q wave myocardial infarction.* Protocol no 022-00.
  12. 1999: Quintiles/G. D. Searle and Co. *The 2<sup>nd</sup> symphony trial: A phase III, multicenter, international, randomised, double-blind, aspirin-controlled trial to evaluate the efficacy and safety of two regimens with Xubix<sup>TM</sup> (Sibrafiban' ro-48-3657), an oral platelet glycoprotein IIb/IIIa antagonist, as therapy for the long term prevention of secondary vascular events in patients after an acute coronary syndrome.* Protocol no BC 15457A.
  13. 1999-date: Parke-Davis and Pfizer. *The effect of LDL-cholesterol lowering beyond currently recommended minimum targets on coronary heart disease (CHD) recurrence in patients with pre-existing CHD (TNT study).* Parke-Davis Protocol 981-117 and Pfizer Protocol 258-102.
  14. 1999-date: Astra-Zeneca. *A 24 week randomised double-blind multicentre multinational trial to evaluate the efficacy and safety of AD 4522 and atorvastatin in the treatment of subjects with heterozygous familial hypercholesterolaemia.* Trial no 4522IL/0030.
  15. 2000-date: Bristol-Myers Squibb. *Omapatrilat vs Enalapril randomized trial of utility in reducing events (Overture).* Clinical study CV 137-068.

### Examiner of PhD/MD theses

1. Conradie C. Echocardiographic determination of risk factors for left atrial thrombi in mitral stenosis: A Multivariate analysis (M.D. University of the Free State).
2. Marais E. The role of cyclic adenosine monophosphate (cAMP), Cyclic guanosine monophosphate (cGMP) and P38 mitogen activated protein kinase (P38 MAPK) in Preconditioning of ischaemic myocardium (PhD. University of Stellenbosch).

### Promotor of MMed theses

1. Louw JH. Optimisation of the diagnostic protocol in probable tuberculous (TB) pericardial effusions. 1996.
2. Biebuyck T. The Aetio-pathogenesis of Takayasu's arteritis. 1998.
3. Smedema JP. Imaging of congenital coronary fistulas. 1998.
4. Katjita I. Twelve lead electrocardiography in tuberculous pericarditis. 2000.
5. Louw VJ. Clinical experience with echocardiographically guided pericardiocentesis and extended drainage in a population with a high prevalence of HIV infection. 2000.

6. Koegelenberg CFN. The role of microbiological investigations in the diagnosis of infective endocarditis. 2000.
7. Taljaard JJ. Prosthetic valve obstruction at Tygerberg Hospital between January 1991 and February 2001. 2002.
8. Weich H. Large pericardial effusions due to systemic lupus erythematosus. 2003
9. Dr Toit R. Mitral valve apparatus: Echocardiographic features predicting the outcome of percutaneous mitral balloon valvotomy. 2004.
10. Wildervanck PJ. The use of pro-B type natriuretic peptide (proBNP) and atrial natriuretic peptide (ANP) to assist in predicting the outcome of patients undergoing percutaneous balloon mitral valvuloplasty (PBMV). 2008
11. Lalla U. Percutaneous balloon mitral valvuloplasty in pregnancy at Tygerberg hospital – a retrospective audit over five years. 2008
12. Lubbe WW. Recognition of cardiac abnormalities with the aid of the precordial auscultation device. Published in 2009.
13. Sareli L. Crystal amphetamine use and myocardial pathology. M.Med awarded.
14. Kyriakakis CG. Evaluation of the possible added benefit of direct pericardial visualization and guided biopsy via pericardioscopy in diagnosing TB pericarditis in a population with a high prevalence of TB. 2009.
15. Stevens Z. Retrospective Audit of Percutaneous Balloon Mitral Valvuloplasty: Experience over the last 11 years at Tygerberg Hospital. Completed. 2011.
16. Cassimjee Z. Assessing the diagnostic accuracy of commissural fusion as an early sign of rheumatic heart disease. Completed 2013.

### **Promotor of PhD theses**

1. Burgess LJ. Determination of the pathogenetic mechanisms for, and the diagnostic implications of, raised adenosine deaminase (ADA) levels in tuberculous exudates. 1999.
2. Reuter H. The immunopathogenesis and treatment of tuberculous pericardial effusions in a population with a high prevalence of infection with the human immunodeficiency virus (2005).

### **Examiner - Post Graduate Examination at other Universities**

1. M. Med at UOVS (2002).
2. M. Med at UOVS (2004).
3. Cert Cardiology (SA) at UCT (2002)
4. Cert Cardiology (SA) at UOVS (2006)
5. Cert Cardiology (SA) at UCT (2008)
6. M. Med at UOVS (2009).
7. Cert Cardiology (SA) at UCT (2011)

8. Cert Cardiology (SA) at WITS (2012)

**Convenor – National Post Graduate Examination**

1. Cert Cardiology (SA) at US (2005)
2. Cert Cardiology (SA) at US (2009)
3. Cert Cardiology (SA) at US (2013)

**Examiner – Presentations/Posters at Academic meetings**

1. Examiner for best Poster – Academic Yearday, Faculty of Health Sciences, University of Stellenbosch (2003).
2. Examiner for best Research Presentation – Academic Yearday, Faculty of Health Sciences, University of Stellenbosch (2004).
3. Examiner for best Poster – Congress of the South African Heart Association, Sun City (2002).
4. Examiner for best Poster – Congress of the South African Heart Association, Cape Town (2006).