



## DEPARTMENT OF MEDICINE ANNUAL REPORT 2000

(Incorporating the UCT Bioethics Centre, MRC/UCT Ischaemic Heart Research Unit and the MRC/UCT Liver Research Centre)

**HEAD OF DEPARTMENT** - Professor RE Kirsch

### DEPARTMENTAL CONTACT DETAILS

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### DEPARTMENTAL PROFILE

The Department incorporates 3 research Units: the UCT Bioethics Centre, the MRC/UCT Liver Research Centre and the MRC/UCT Ischaemic Heart Disease Research Unit; 14 divisions or clinics: Cardiology, Immunology, Endocrinology and Diabetology, Emergency Medicine, Gastroenterology, Geriatrics, the Hypertension Clinic, Lipidology, Neurology, Nephrology, Nutrition and Dietetics, Pulmonology, and Rheumatology; and Departments of Internal Medicine – at Groote Schuur, Conradie, Jooste, Somerset, and Victoria Hospitals.

### DEPARTMENTAL STATISTICS 2000

<b>PERMANENT &amp; LONG TERM CONTRACT STAFF</b>	
Professors	6
Associate Professors	15
Senior Lecturers	17
Lecturers	6
Research Staff (see units within Dept)	
Administrative and clerical staff	9
<b>TOTAL</b>	<b>53</b>

<b>HONORARY STAFF</b>	
Honorary Professors	1
Emeritus Professor	1
Honorary Associate Professors	1
Honorary Senior Lecturers	7
Honorary Lecturers	4
Honorary Research Associates	2
<b>TOTAL</b>	<b>16</b>

### STUDENTS

Doctoral	<b>12</b>
Masters	<b>110</b>
Undergraduates	<b>516</b>
<b>TOTAL</b>	<b>638</b>

### RESEARCH FIELDS

See Units and Divisions within the Department

**Professor R E Kirsch:** Medical education, health services, porphyria, hepatitis, infection and liver disease, cardiovascular manifestations of portal hypertension

## **UCT BIOETHICS CENTRE**

**DIRECTOR** – Professor S.R. Benatar

### **CONTACT DETAILS**

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### **DEPARTMENTAL SUMMARY**

The first Applied Ethics Masters Degree Course in Bioethics (MPhil) was completed at the end of 2000. All five students successfully completed the course work and are working on their dissertations. Terry Fleischer completed his first year with us as a visiting scholar. He has become an active, much sought after and appreciated participant in many of our activities- including teaching in our MPhil programme. He has taken a leading role in our work on resource allocation and priority setting, and is working with Ann Pope in developing a course in 'Law and Medicine' for the Law Faculty.

Professor Benatar spent four months as visiting Professor in the Departments of Public Health Sciences and Medicine at the Joint Bioethics Centre, University of Toronto. He was the Canadian Royal College of Physicians and Surgeon's McLaughlin-Gallie Visiting Professor for 2000. He serves on the Board of Directors of the International Association for Bioethics, and on the Board of Directors of The Ethics Institute of South Africa.

Dr David Benatar was invited to give a large number of lectures at many venues throughout South Africa. He and Prof S Benatar delivered a five-lecture evening course on medical ethics to a group of almost 100 medical practitioners in Cape Town.

Our consultation service has been used quite extensively and this continues to be offered at several hospitals. In addition Professor Benatar has provided teaching/consultation sessions each at our community hospitals - once a month at each of Victoria, Jooste, Somerset and Conradie Hospitals.

### **DEPARTMENTAL PROFILE**

In October 2000 the UCT Bioethics Centre Consortium (with colleagues from the Universities of Stellenbosch, Witswatersrand, Natal and Orange Free State) was awarded a Development Grant of \$50,000 a year for two years from the US National Institutes of Health's Fogarty International Centre to develop a program for capacity building in Research Ethics in South Africa. The development process will take place in collaboration with the Joint Centre for Bioethics in Toronto.

We have embarked on a series of projects on resource allocation and priority setting under conditions of increasing scarcity of resources at Groote Schuur and the Red Cross Childrens' Hospitals. The first project towards defining a policy for dealing with severe head injuries under conditions of severe resource constraints has been published.

### **PERMANENT AND LONG-TERM CONTRACT STAFF**

Prof S R Benatar

### **HONORARY STAFF**

Members of this unfunded unit include:

Professor SR Benatar, Dr D Benatar, Dr J de Beer, Professor J Glazewski, Dr L Henley, Ms U Kyriacos, Dr E Nash, Ms A Pope, Dr H Reeve Sanders, Dr P Roux, Dr A Shutte, Professor R Abratt, Sister U Algar, Professor D Dent, Professor A Du Toit, T Fleischer, Professor G Maartens, Dr L Michell, Dr E Peter, Professor S Ress, Professor A van Niekerk, Professor JP van Niekerk, Professor R van Zyl Smit, Professor T Zabow.

#### **STUDENTS - M Phil Bioethics 1999/2000**

Dr Paul Roux  
Dr Lesley Henley  
Dr Steve Andrews  
Mr Jonathan Frank  
Mrs Denise Frank

#### **RESEARCH FIELDS**

**Prof S R Benatar:** Research Ethics (including International Research Ethics) and Global Bioethics

**Dr David Benatar:** Moral Philosophy and Applied Ethics

**Dr Augustine Shutte:** African Philosophy and its implications for Bioethics

**Dr Leslie Henley:** End of life decisions - with special reference to a children's hospital

**Dr Paul Roux:** The impact of informed consent with regard to HIV / AIDS in a children's hospital.

**Terry Fleischer:** Resource allocation/priority setting within the context of shrinking resources.

**Dr Steve Andrews:** Informed consent in a multicultural setting

#### **RESEARCH OUTPUTS**

##### **RESEARCH PAPERS AND REFERREED ARTICLES**

Benatar SR, Singer PA. A new look at international research ethics. *British Medical Journal* 2000; 321: 824-826.

Benatar SR. Avoiding exploitation in clinical research. *Cambridge Quarterly of Healthcare Ethics* 2000; 9(4): 562-565.

Benatar SR. Preventing vertical HIV transmission: the controversy in South Africa. *Journal of Women's Health and Law* 2000; 1(3): 313-318.

Benatar SR. Ethical issues in HIV vaccine trials. *HIV Therapy* 2000 (in press).

Benatar SR, Fleischer TE, Taylor A, Peter J. Treatment of head injuries in SA. *South African Medical Journal* 2000; 90: 790-793.

Benatar SR. Medical education and medical practice in the 21<sup>st</sup> century. *Brunei Medical Journal* 2000; 2: 15-16.

Benatar D. The wrong of wrongful life. *American Philosophical Quarterly* 2000; 37 (2): 175-183.

Landman WA, Henley LD. Rationing and children's constitutional healthcare rights. *South African Journal of Philosophy* 2000; 19 (1): 41-50.

Henley LD, Landman WA. Implementing children's constitutional healthcare rights fairly. *South African Medical Journal* 2000; 90: 601-604.

Landman WA, Henley LD. Legalising advance directives in South Africa (editorial). *South African Medical Journal* 2000; 90: 785-787.

##### **BOOKS**

Glazewski J. *Environmental Law in South Africa*. Butterworths: Durban, 2000: 911.

## **CHAPTERS IN BOOKS**

Benatar SR. Human Rights in the Biotechnology Era: A story of two lives and two worlds. In: Peace, Justice and Freedom: Human Rights challenges in the new millennium. Bhatia GS, O'Neil JS, Gall GL, Bendin PD (eds). University of Alberta Press, Edmonton, 2000; 245-257.

## **PUBLISHED CHAPTERS IN CONFERENCE PROCEEDINGS**

Benatar SR. Transdisciplinarity: A personal odyssey. In: Proceedings of a Conference on "Transdisciplinarity" 2000 (in press).

## **CONFERENCE ABSTRACTS**

Benatar SR. Avoiding conflict in clinical research. 5th World Conference on Bioethics Sept 2000 London UK.

## **UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE**

Benatar D. Euthanasia and assisted suicide: the right to life and its corollary. Specialist Medicine 2000; 22(6): 354-358.

Benatar SR. (Book Review) Clinical Guidelines and the Law by B Hurwitz South African Medical Journal 2000; 90: 123-124.

Benatar SR. (Letter) AIDS in the 21<sup>st</sup> century. New England Journal of Medicine 2000; 342: 515-6.

Logie DE, Benatar SR. (Letter) Realistic priorities for AIDS control. The Lancet 2000; 356: 1525-1526.

Benatar SR, Fleischer TE. (Letter) Tough priorities. The Hastings Center Report 2000; 30: (5) 4.

## **CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPMENT IN RESEARCH**

Prof SR Benatar Participated as a Committee member/consultant in re-writing the CIOMS International Guidelines on Research Ethics in Geneva.

Board of Directors – Ethics Institute of South Africa

Board of Trustees – Groote Schuur Hospital Trust

South African Scientific Advisor to the Novartis Foundation, London

Elected Member: Committee for Human Rights, Ethics and Professional Practice. Health Professional Council of South Africa

Elected Member: Board of Trustees of the International Association of Bioethics

Chairman UCT Committee of Ethics of Research

Editorial Advisory Board. Journal of Theoretical Medicine and Bioethics

Editorial Advisory Board. International Library of Law, Ethics and Medicine

## **CONFERENCE PRESENTATIONS**

### **International**

Prof S R Benatar gave three invited presentations at the AIDS 2000 Conference in Durban. He presented invited papers at the Hastings Center Meeting on 'Medicine and the Market,' and at a plenary session of the 5<sup>th</sup> World Congress of Bioethics in London. He gave an invited keynote address at the Scientific Meeting of the Swiss Society of Public Health in Bern, in honour of Prof Theodore Abelin's retirement.

Prof T Zabow gave presentations at the International Conference on Ethics in Medical Education In Israel, and at the 13<sup>th</sup> World Congress of Medical Law in Helsinki.

### **National**

Prof SR Benatar gave an invited presentation at a Colorectal Cancer Symposium in Cape Town.

Prof T Zabow gave presentations at the 11<sup>th</sup> National Congress of Psychiatry in Durban and at a . Conference on the Impaired Health Professional and Student Health Professions Council of South Africa in Cape Town

Prof J Glazewski presented at the Annual Conference of the South African Teachers of Law in Durban.

Mr Terry Fleischer gave a presentation at the meeting of the Neurosurgeon's Society of South Africa, in Cape Town.

# CARDIAC CLINIC

**HEAD OF DEPARTMENT** - Professor P J Commerford

## CONTACT DETAILS

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## DEPARTMENTAL PROFILE

The Cardiac Clinic provides an in- and outpatient clinical service in cardiology and training for registrars in the subspeciality. Research activities are predominantly clinical including evaluation of new pharmaceutical agents and adaptations of practice to suit local conditions.

## PERMANENT AND LONG TERM STAFF

Professor	1
Associate Professor	1
Senior Lecturers	3
Part-time Senior Lecturer	1
Registrars-in-training	3
Secretarial Staff and Research staff	4
Technologists	4
ECG Technicians	8
Honorary staff	1
Nursing staff	33
Radiographers	4
GSH Administrative	6

## STUDENTS

Learner Technologists	2
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## RESEARCH FIELDS

### Professor Patrick J Commerford:

VAL-HEFT Study. A placebo-controlled trial to assess the effect of Valsartan on morbidity and mortality in patients with stable, chronic, congestive heart failure.

A 4-year, double-blind, randomized, placebo-controlled study of atorvastatin as prevention of CHD end points in patients with (Type II) Noninsulin-dependent diabetes mellitus. Parke-Davis Pharmaceuticals

Myocardial ischaemic reduction with aggressive cholesterol lowering (MIRACL) with atorvastatin patients with unstable angina or non-Q wave myocardial infarction. Parke-Davis Pharmaceuticals.

CURE: Clopidogrel in unstable angina to prevent recurrent ischaemic events (oasis-4) - protocol no. efc3307a phase iii randomized, double blind, parallel group clinical trial of clopidogrel versus placebo in patients with an acute coronary syndrome (unstable angina or myocardial infarction without st segment elevation) (International Steering Committee)

Candesartan Cilexetil (Candesartan) in heart failure assessment of reduction in mortality and morbidity (CHARM) clinical study no: sh-ahs-0003, sh-ahs-0006 and sh-ahs-0007

INTER-HEART – an international multicentre case control study to identify the risk factors for acute myocardial infarction in different ethnic populations. (International Steering Committee)

GUSTO IV AMI – Protocol co116t31 . A phase iii, randomised, open-label trial evaluating the efficacy and safety of reopro (abciximab) in combination with reduced dose reteplase/alteplase (recombinant plasminogen activator, reteplase, r-pa) for the treatment of acute myocardial infarction

OVERTURE - Protocol no. cv 137-068. omapatrilat versus enalapril randomized trial of utility in reducing events (overture)

EPLERENONE: Clinical protocol for a double-blind, randomised, placebo-controlled trial evaluating the safety and efficacy of eplerenone in patients with heart failure following acute myocardial infarction, ind #51,780

**Professor R N Scott Millar:**

1998 Survey of cardiac pacing in South Africa. Report of working group of the Cardiac Arrhythmia Society of South Africa (CASSA). Nationwide survey of indications, methods and demographics of pacemaker implantation.

**M Le Roux (clinical technologist), Dr A Okreglicki (Senior lecturer) and Professor R N Scott Millar:**

Evaluation of the performance of different bipolar pacing leads. Retrospective analysis of the performance of 3 different bipolar pacing electrodes.

Peri-operative ventricular tachyarrhythmias: outcome after ICD implant

**Professor U von Oppell and Professor RN Scott Millar:**

Surgery for ventricular tachycardia. Review of GSH experience of surgery for ventricular arrhythmias.

**Dr A Okreglicki (Senior lecturer), Dr T Pillay (registrar) and Professor R N Scott Millar:**

Review of experience with Wolff-Parkinson-White Syndrome over 12 years, Groote Schuur Hospital

**Okreglicki A, Huang DT, Daubert JP**

Longer term analysis of atrial pacing leads with regard to lead position and measured farfield ventricular signals.

**Okreglicki A, Daubert JP, O’Gorman EA, Delpapa B, Petrini M**

Biventricular pacing in congestive heart failure (chf). Is it a feasible therapeutic option in a tertiary level state hospital?

**Okreglicki A, Pillay T**

CURE STUDY (clopidogrel in unstable angina to reduce recurrent events). Investigator

**Dr B N Levetan (Senior Lecturer)**

PRESTO STUDY. (Prevention of restenosis with tranilast and its outcomes: a placebo-controlled trial). Investigator

**DISTINGUISHED VISITORS**

Dr Donna Stewart, University of Toronto, Canada

Professor Bernard J Gersh, Mayo Clinic, Rochester, USA

Professor Shah Ebrahim, Dr William Hood, Dr Karen Rees, Dr Juliet Manyemba, Dr Antoinette Cilliers, Professor

Enoch Kwizera, Ms Theresa Moore, Mrs Margaret Burke – The Cochrane Collaboration Team – UK and USA

Professor J V Nixon, Virginia Commonwealth University, Virginia, USA

**RESEARCH OUTPUTS**

**RESEARCH PAPERS AND REFEREED ARTICLES**

Von Oppell U, Stemmet F, Brink J, Commerford PJ, Heijke SAM. Ischemic mitral valve repair surgery. Journal of Heart Valve Disease 2000; 9(1): 64-74.

St Clair Gibson A, Perold J, Watermeyer GA, Latouf SE, Hawley JA, Lambert MI, Noakes TD. Veteran athletes exercise at higher maximum heart rates than are achieved during standard exercise (stress) testing. South African Medical Journal 2000; 90(2): 141-146.

Garner P, Gelband H, Olliaro P, Salinas R, Volmink J, Wilkinson D.

Available in The Cochrane Library (database on disk and CDROM). The Cochrane Collaboration; Issue 4. Oxford: Update Software; 1997. Updated quarterly.

Meinert D, Mohammed Z. MRI of congenital coronary artery aneurysm (case report). British Journal of Radiology 2000; 73: 322-324.

Mayosi BM, Scott Millar RN. Letter to the Editor. East African Medical Journal 2000; 77(6): 339.

#### **CHAPTER IN BOOKS**

Brice EAW, Commerford PJ. Rheumatic valve disease. In: Essential Cardiology. Rosendorff C (ed). Section VII, Ch. 29. WB Saunders Co.: Philadelphia, 2000, pp 561-582.

#### **LETTERS**

Okreglicki AM. P Terminal force in lead V<sub>1</sub>. American Journal of Cardiology 2000; 86(2): 255.

Okreglicki AM, Scott Millar R. Letter to the Editor Ebstein's anomaly. PACE Part 1, November 2000.

#### **PUBLISHED CONFERENCE PROCEEDINGS**

Mayosi BM, Lombard C, Mbewu AD. The impact of lp(a) level and apo(a) isoform on left ventricular function following acute myocardial infarction. European Heart Journal 2000; 21: 601.

Mayosi BM, Lombard C, Mbewu AD. A prospective study of the effect of lipoprotein(a) level and apolipoprotein(a) isoform on left ventricular damage following acute myocardial infarction. Circulation, October 2000; 102(18): Suppl II, 280.

#### **CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPED IN RESEARCH**

Professor Commerford served on the International Steering Committee of OASIS-2, 3 and 4 and the Organising Committee of INTERHEART, a multinational investigation of inter-ethnic variation in risk factors for acute myocardial infarction (Canadian Cardiovascular Collaboration.)



# CLINICAL IMMUNOLOGY LABORATORY

**HEAD OF UNIT** – Associate Professor SR Ress

## CONTACT DETAILS

Postal Address: Clinical Immunology Laboratory  
H47 Old Main Building  
Groote Schuur Hospital  
Observatory, 7925  
Cape Town  
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Fax: (021) 4486815  
Email: sress@uctgsh1.uct.ac.za

## DEPARTMENTAL PROFILE

Clinical immunology laboratory provides a comprehensive diagnostic service to Groote Schuur and related teaching hospitals, including specialised investigations for the evaluation of immune function in patients with suspected immune deficiency. Research activities comprise the evaluation of cellular immunity in tuberculosis and lipid mediated inflammation. TB basic research evaluates protective immunity of cytotoxic T-cell activity, while collaborative studies are in progress on BCG vaccination (ICH, UCT)) and response to therapy (pharmacology UCT). Collaborative research on the role of monocytes in inducing inflammation and atheroma is undertaken with the Lipid Unit, Dept of Medicine.

## PERMANENT AND LONG-TERM STAFF

### Associate Professor

S R Ress MBChB, FCP (SA)

### Research Staff

Senior scientific officer (L. Semple)

Research Officer (MM Keraan BA (Hons) PhD)

### Laboratory Technical Staff

E Carelse BSc

M Watkins Med Tech Diploma, MSc

### Technical Support Staff

A. Adams

C. Jacobs

## RESEARCH FIELDS

**Professor Stanley Ress:** Immunology of Lipid disorders and tuberculosis.

**Dr MM Keraan:** Immunology of Lipid disorders and tuberculosis.

**M Watkins:** (MSc): Immunology of TB

**PL Semple:** (MSc): Immunology of TB and lipid disorders

## RESEARCH OUTPUTS

### RESEARCH PAPERS AND REFEREED ARTICLES

Hendricks AS, Hunter AJ, Keraan M, Blekkenhorst GH. Effects of low dose irradiation on TK 6 and U937 cells: induction of p53 and its role in cell cycle delay and the adaptive response. International Journal of Radiation Biology 2000, 76, 11-21.

## DOCTORAL THESIS PASSED FOR HIGHER DEGREES

RH Glashoff. Characterisation of cytolytic CD4+ and suppressor CD8+ activity of T lymphocyte clones derived from tuberculous pleuritis. 1-174. PhD thesis. University of Cape Town.

**CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPED IN RESEARCH**

Professor Ress was invited to attend a WHO workshop in Washington DC in May 2000 on "correlates of immune protection in tuberculosis", and presented research data at the meeting.

# ENDOCRINE/DIABETES UNIT

**HEAD OF DIABETES UNIT** - Professor F. Bonnici

**HEAD OF ENDOCRINE UNIT**- Associate Professor N S Levitt

## CONTACT DETAILS

Postal Address: The Endocrine/Diabetes Unit  
Department of Medicine  
Faculty of Health Sciences  
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## DEPARTMENTAL PROFILE

During the past year the headships of the combined unit have been separated although there continues to be considerable overlap in areas of interest including research. The Endocrine/Diabetes Unit provides comprehensive clinical and laboratory services to the UCT Teaching Hospital Group, an educational training programme for under- and post-graduate students and fulfils a broad spectrum of research activities.

The Endocrine Unit is actively engaged in research in osteoporosis, adrenal disorders, diabetes and the foetal origins of chronic diseases. International, national and intra-institutional collaborations have been established with the Universities of Edinburgh, Cambridge, Newcastle, British Columbia, the South African Medical Research Council and within UCT, with the departments of Chemical pathology and Neonatology and the Sports Science Institute. This research has focussed on the epidemiology of diabetes and its complications, the prevention of diabetic complications, genetics of diabetes, diabetes health systems research, polycystic ovarian syndrome, mechanisms underlying the association between low birth weight and adult onset chronic disorders, newer tests for the evaluation of adrenal disorders and pharmacological trials in osteoporosis and diabetes. The Endocrine unit and its collaborators have been the recipients of major grants from the Nestle Foundation and the Medical Research Council.

The Diabetes Unit, is instituting a Young Adult's programme as a natural extension of its already successful Adolescent Transition Care. Research is focusing on intensification of metabolic control with new insulin regimes, long-term psychosocial integration and immunotherapy for the prevention of type 1 diabetes. A phase 1 study, investigating the pharmacokinetic and immune responses to an altered peptide ligand in young volunteer subjects with type 1 diabetes, inaugurated the new premises of the Pharmacokinetic Unit at the Lung Institute.

With the help of the Phumeza Mawonga Diabetes Fund, supported by UCT, the SA Diabetes Association and the corporate pharmaceutical sector, novel avenues of cultural, religious and social self-expression are being explored and evaluated as a means of promoting diabetes awareness, self-management and social upliftment in the African communities of Cape Town.

## PERMANENT AND LONG TERM STAFF

Full Professor	1
Associate Professor	1
Senior Lecturers	2
Senior Registrar in training	1
Technical Support Staff	2
Administrative and Clerical Staff	1

## RESEARCH FIELDS

**Professor F Bonnici:** Head of Diabetes Unit:

Genetic and molecular studies in growth hormone disorders; phase 4 insulin analogue studies in type 1 and 2 diabetes; phase 1 pharmacokinetic and immune response studies of an altered peptide ligand in the prevention of type 1 diabetes.

**Associate Professor N S Levitt:** Head of Endocrine Unit:

Diabetes and hypertension health systems research; genetics of diabetes, mechanisms for and prevention of complications of diabetes, the foetal origins of chronic diseases, the glycaemic index of foods and pharmaceutical trials in the management of diabetes.

**Dr B Ascott-Evans**

Osteoporosis; drug research with bisphosphonates; treatment of type 2 diabetes using novel insulin secretagogues, and insulin analogues.

**Dr S Soule**

Diagnostic tests for the evaluation of Primary hyperaldosteronism; evaluation of adrenal function, pharmaceutical trials in the management of dyslipidaemia, diabetes and osteoporosis.

## RESEARCH OUTPUTS

### RESEARCH PAPERS AND REFEREED ARTICLES

Coetzee E, Levitt NS. Maternal diabetes and perinatal outcome. *Seminars in Neonatology* 2000; 5: 221-229.

Daniels AR, Patel M, Biersma R, Otten J, Levitt NS et al. A structured record to implement the national guidelines for diabetes and hypertension care. *South African Medical Journal* 2000; 90: 53-56.

Kaplan FJ, Levitt NS. Insulinoma presenting as temporal lobe epilepsy. *South African Medical Journal* 2000; 90: 777-779.

Kaplan FJL, Levitt NS, Soule SG. Primary hypoadrenalism assessed by the 1µg ACTH test in hospitalised patients with active pulmonary tuberculosis *Quarterly Journal of Medicine* 2000; 93: 603-609.

Levitt NS, Lambert EV, Woods D, Hales CN, Andrew R, Seckl JR. Impaired glucose tolerance and elevated blood pressure in low birth weight, non-obese, young South African adults: early programming of cortisol axis *Journal of Clinical Endocrinology & Metabolism* (In Press)

Levitt NS, Unwin N, Bradshaw D et al. Application of the new ADA criteria for the diagnosis of diabetes to population studies in sub-Saharan Africa. *Diabetic Medicine* 2000; 17: 381-385.

Lourens W, Bonnici F, Hertz M, Arora V, Roach P. Improved glycaemic control with Humalog Mix25 compared with human insulin 30/70 in patients with type 2 diabetes. *Journal of Endocrinology, Metabolism & Diabetes of South Africa* 2000; 5(2): 87-92.

Soule S, Davidson J, Rayner B. The evaluation of primary hyperaldosteronism. *South African Medical Journal* 2000; 90: 387-394.

Soule S, Van Zyl Smit C, Parolis G, Attenborough S, Peter D, Kinvig S, Kinvig T, Coetzer E. The low dose ACTH stimulation test is less sensitive than the overnight metyrapone test for the diagnosis of secondary hypoadrenalism. *Clinical Endocrinology* 2000; 53: 221-227.

Steyn K De Wet T, Richter L, Cameron N, Levitt NS, Morrell C. Cardiovascular disease risk factors in 5-year-old urban South African children- the birth-to-ten study. *South African Medical Journal* 2000; 90: 719-726.

Coetzee EJ, Levitt NS. Maternal diabetes and neonatal outcome. *Seminars in Neonatology* 2000; 5: 221-229.

Raubenheimer PJ, Soule SG. Hypothyroidism – a reversible cause of cardiac tamponade with an atypical presentation. *Journal of Endocrinology, Metabolism & Diabetes of South Africa* 2000; 5: 130-132.

### UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE

Raubenheimer PJ, Levitt NS. What is good control in diabetes mellitus? *South African Journal of Continuing Medical Education* (In Press)

Soule SG. Prolactin inhibitors. In: *South African Medicines Formulary 5<sup>th</sup> Edition* 2000. Gibbon CJ (Ed.). Cape Town: SAMA Health and Medical Publishing Group. 2000, p199-201.

Soule S. Male menopause – fact or fiction? *OsteoNews* Issue 15, April 2000.

## **ABSTRACTS**

Aginsky J, Visser M, Levitt NS. The inter- and intraindividual variation in glycaemic and insulin responses to glucose and white bread in healthy male subjects. Biennial Nutrition Congress of South Africa Durban, August 2000.

Aginsky J, Visser ME, Levitt NS. The Inter- and Intraindividual Variation in Glycaemic Response to Glucose and White Bread in Healthy Male Subjects. Society for Endocrinology, Metabolism & Diabetes in South Africa, Durban, April 2000.

Lambert EV, Levitt NS, Woods D. Heart-Rate Variability and Urinary Catecholamines in a Low Birthweight Cohort of Young South Africans. Society for Endocrinology, Metabolism & Diabetes in South Africa, Durban, April 2000.

Levitt NS, Lambert EV, Woods DL, Seckl JR. Altered HPA Responsiveness in Young South African Adults with Low Birth Weight. Society for Endocrinology, Metabolism & Diabetes in South Africa, Durban, April 2000.

Matwa PN, Dick J, Levitt NS. Knowledge, Attitudes and Practices of Xhosa Speaking Diabetic Patients regarding the Optimum Care of their Feet. Society for Endocrinology, Metabolism & Diabetes in South Africa, Durban, April 2000.

McMahon CL, Welman C, Lambert VL, Levitt NS, Woods D. Anthropometric and CT- derived measures of visceral obesity in young South African adults. Biennial Nutrition Congress of South Africa, Durban, August 2000.

N S Levitt, K Steyn, A D Daniels, C Lombard, M F Zwarenstein. Does Primary Care for Diabetes in South Africa meet National Guideline Standards? IDEG Satellite meeting to the IDF Congress, Acapulco, November 2000.

N S Levitt, K Steyn, M Hoffman, C Lombard, E V. Lambert, A Daniels, J Fourie. Insulin resistance is associated with a clustering of metabolic disorders in a South African community. International Diabetes Federation Congress, Mexico City, November 2000.

Nthangeni NG, Alberts M, Steyn NP, Steyn K, Levitt NS. Comparison of Macro- and Micronutrient Intakes in Africa Type 2 Diabetic Patients in the Northern Province. Society for Endocrinology, Metabolism & Diabetes in South Africa, Durban, April 2000.

Soule SG, Coetzer E, Van Zyl Smit C, Parolis G, Attenborough S, Peters D, Kinvig T, Kinvig S. The 1µg ACTH stimulation test for the evaluation of ACTH deficiency in patients with hypopituitarism. 36<sup>th</sup> Society for Endocrinology, Metabolism & Diabetes in South Africa, Durban, April 2000.

## **CONSULTANCIES AND OTHER ACTIVITIES BASED ON EXPERTISE IN RESEARCH**

### **Professor F Bonnici**

Consultative Section on Education and Section on Childhood and Adolescent Diabetes of the International Diabetes Federation; Contributor, ISPAD Consensus Guidelines for the Management of type 1 diabetes; Board of Trustees, The Diabetes Education Foundation; Expert Diabetes Education Study Group of the European Association for the Study of Diabetes; International Editorial Advisory Board, Practical Diabetes International; Scientific Programme Committee, 17<sup>th</sup> IDF Congress Mexico 2000; WHO Expert Advisory Panel (Diabetes); Diabetes Atlas 2000 Editorial Committee and French translator.

### **Associate Professor N S Levitt**

Chairperson Society for Endocrinology Metabolism and Diabetes of Southern Africa Co-Ordinator of Subgroup for Development of National Guidelines for the Management of Type 1 and Type 2 Diabetes at hospital level in South Africa (Department of Health). Member of subgroups for Development of National Guidelines for the Management of Obesity at Primary Care Level in South Africa (Department of Health). Consultant to Chronic Diseases of Lifestyle Group, Medical Research Council.

### **Dr B H Ascott-Evans**

National Advisory Board on Bisphosphonates. Consultancy service (academic expert/opinion leader) to 3 international pharmaceutical companies involved in Osteoporosis, and 2 in Diabetes - related to track record in international clinical research and academic standing.

**Dr S Soule**

Member of Organising Committee Osteoporosis Congress – Densitometry Course, Cape Town Oct 2000. Member of Executive Committee of National Osteoporosis Foundation. Member of SEMDSA Executive Committee.

# GASTROINTESTINAL CLINIC

**HEAD OF CLINIC** - Professor Japie Louw

## CONTACT DETAILS

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## DEPARTMENTAL PROFILE

The Gastrointestinal Clinic is a multi-disciplinary clinical unit consisting of Medical and Surgical components. This report primarily reflects the Medical component. The Clinic carries a large clinical load and offers a number of specialised services, with clinical and applied research interests in: Hepatobiliary disease - surgical; Colorectal disease - surgical; Oesophageal disease - medical/surgical; Inflammatory bowel disease - medical/surgical; and *H.pylori* related disease - medical. The Clinic is involved in collaborative research projects with Professor IM Modlin (Yale), Professor L Tang (Yale), Professor S Schreiber (Christian Albrechts University, Kiel, Germany), Dr JC Atherton (Nottingham, UK), Dr M Achtman (Max-Planck Institut, Berlin, Germany), and the GI Unit, University of Stellenbosch and Tygerberg Hospital.

## PERMANENT AND LONG TERM CONTRACT STAFF

Professors	1
Emeritus Professors	1
Senior Lecturers	1
Research Staff	2
Administrative and Clerical Staff	1

## STUDENTS

Doctoral	2
Masters	2

## RESEARCH FIELDS

**Professor Japie Louw** - Head of GI Clinic

*Helicobacter pylori*: role in gastric carcinogenesis: this includes clinical (case control studies), molecular assessment of strain diversity, pathogenic role of various *H.pylori* components on cell proliferation (with M Kidd), the relationship between gastroesophageal reflux and asthma (with M. Letier and Respiratory Clinic); Gastroesophageal reflux disease: assessment of predictors of surgical outcome, audit of surgical outcome (with Surgery); Upper gastrointestinal bleeding: development of outcome predictors (with S Kalula); Achalasia: evaluation of treatment modalities (with Surgery); the pathobiology of Barrett's oesophagus (with G Watermeyer); drug trials - various.

**Dr Trevor Winter** - Senior Specialist

Inflammatory bowel disease: ongoing research includes nutritional aspects of IBD (with N. Kaganson), the role of anti-oxidant vitamins in IBD, genetic studies in IBD (collaborative work with Oxford and Christian Albrechts University, Kiel, Germany), drug trials with novel agents (budesonide, ridogrel).

## RESEARCH OUTPUTS

### RESEARCH PAPERS AND REFEREED ARTICLES

Winter, TA, Lemmer ER, O'Keefe SJD, Ogden JM. The effect of severe undernutrition, and subsequent refeeding on digestive function in human patients. *European Journal of Gastroenterology & Hepatology* 2000; 12: 191-196.

Van Zyl JH, Grundling Hde K, Van Rensburg CJ, Retief FJ, O'Keefe SJD, Theron I, Fischer R, Bethke T. Efficacy and tolerability of 20 mg pantoprazole versus 300 mg ranitidine in patients with mild reflux-oesophagitis: a randomized, double-blind, parallel, and multicentre study. *European Journal of Gastroenterology & Hepatology* 2000; 12: 197-202.

Louw JA, Marks IN. The treatment of peptic ulcer disease. *Current Opinion in Gastroenterology* 2000; 16: 489-494.

Kidd M, Moss SF, Tang LH, Zhang T, Chin K, Holt P, Modlin IM. Gastrin mediated alterations in gastric epithelial apoptosis and proliferation in a rodent model of gastric neoplasia. *Digestion* 2000; 62: 143-151.

Modlin IM, Kidd M, Fahardi J. Bayliss and Starling and the nascence of endocrinology. *Regulatory Peptides* 2000; 25: 109-123.

Kidd M, Tang LH, Schmid S, Lauffer J, Louw JA, Modlin IM. Helicobacter pylori lipopolysaccharide alters ECL cell DNA synthesis via a CD14 Receptor and polyamine pathway in mastomys. *Digestion* 2000; 62(4): 217-224.

Cordot A, Colombel JF, Rutgeerts P, Lauritsen K, Malchow H, Hamling J, Winter TA, Van Gossum A, Persson T, Pettersson E. Switch from systemic steroids to budesonide in patients with inactive Crohn's disease. *Gut* (In press)

## **CHAPTERS IN BOOKS**

Modlin IM, Fahardi J, Kidd M. From the pump to the Helix. In: *Helicobacter pylori – Basic mechanisms to clinical cure*. Hunt RH and Tytgat GNJ (Eds). Kluwer Academic Publishers, London, UK, 2000; pp 347-372.

## **UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE**

Winter TA. Alimentary Tract and Metabolism. In: *The South African Medicines Formulary, 5<sup>th</sup> Edition*: Gibbon CJ (Ed.). Cape Town: South African Medical Association Health and Medical Publishing Group, 2000, pp 32-88.

## **CONFERENCE ABSTRACTS**

Lantermann A, Winter TA, Kim WH, Nagy M, Koepke B, Hampe J, Folsch UR, Flad HD, Schreiber S. Investigation of HLA-DPA1 associations with IBD in European, South African and South Korean populations. *Gastroenterology* 2000. American Gastroenterology Association Annual Conference, May 20-24, 2000, San Diego, California.

Thomsen OO, Cortot A, Jewel D, Wright J, Winter TA, Veloso FT, Vatn M, Persson T, Pettersson E. An evaluation of the effect of budesonide and mesalamine on the clinical condition of patients with active Crohn's disease. *Gastroenterology* 2000. American Gastroenterology Association Annual Conference, May 20-24, 2000, San Diego, California.

Thomsen OO, Cortot A, Jewel D, Wright J, Winter TA, Veloso FT, Vatn M, Persson T, Pettersson E. A comparison of the effect of budesonide and mesalamine on quality-of-life in patients with active Crohn's Disease. *Gastroenterology* 2000. American Gastroenterology Association Annual Conference, May 20-24, 2000, San Diego, California.

Kaganson N, Winter TA, Callanan M, Paterson H. The effect of supplemental Vitamins A and E on relapse rates in Crohn's disease. *South African Medical Journal* 90(6):637. South African Gastroenterology Society Annual Conference, June 15-19, 2000, Windhoek, Namibia.

Kidd M, Peek RM, Lastovica AJ, Kummer AF, Louw JA. Relationship between Helicobacter pylori iceA genotypes, vacA alleles and clinically significant disease in South Africa. *South African Medical Journal* 90(6):637. South African Gastroenterology Society Annual Conference, June 15-19, 2000, Windhoek, Namibia.

Kidd M, Lastovica AJ, Perez-Perez G, Tang LH, Modlin IM, Louw JA. The biological relevance of Helicobacter pylori virulence fingerprints. *South African Medical Journal* 90(6):643. South African Gastroenterology Society Annual Conference, June 15-19, 2000, Windhoek, Namibia.

Kummer AF, Kidd M, Kotze U, Taylor K, Lastovica A, Louw JA. Relation between gastric adenocarcinoma (GCA) and H.pylori (HP): a case-control study. 2000. *South African Medical Journal* 90(6):637.

Douie WJP, Bornman PC, van Wyk M, Kidd M, Johnson CD, Fitzsimmons D. Which factors influence quality of life (QoL) in patients with chronic pancreatitis after surgery for intractable pain? *SA Journal of Surgery* 38:23. Association of Surgeons of South Africa Annual Conference, November 3-8, 2000, Port Elizabeth.



Douie WJP, Bornman PC, van Wyk M, Kidd M, Beckingham I, Terblanche J. Is surgery a viable therapeutic option in the management of pain in chronic pancreatitis? SA Journal of Surgery 38:18. Association of Surgeons of South Africa Annual Conference, November 3-8, 2000, Port Elizabeth.

Mall A, Suleman N, Kidd M, Taylor K, Tyler M, Lotz Z, Hickman R, Kahn D. The incidence of *Helicobacter heilmannii* in the normal pig stomach? South African Journal of Surgery (in press). Surgical Research Society Annual Conference, July 27-28, 2000, Cape Town.

Mall A, Suleman N, Taylor K, Tyler M, Lotz Z, Kidd M, Hickman R, Kahn D. Is there an association between *H. heilmannii* infection, mucus degradation and ulceration of the pars oesophagea of the abattoir pig stomach? South African Journal of Surgery (in press). Surgical Research Society Annual Conference, July 27-28, 2000, Cape Town.

Mall A, Blows D, Taylor K, Kidd M, Tyler M, Lotz Z, Hickman R, Kahn D. Is there an association between *H. heilmannii* infection, mucus degradation and ulceration of the pars oesophagea in the bile duct ligated pig? A pilot study. South African Journal of Surgery (in press). Surgical Research Society Annual Conference, July 27-28, 2000, Cape Town.

#### **THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES**

Kaganson N. The antioxidant vitamin status of Inflammatory Bowel Disease patients: An intervention study : 1-191. MSc(Med) Thesis : University of Cape Town.

Kidd M. Relationship of *Helicobacter pylori* virulence to gastric pathobiology in the Western Cape : 1-192. Ph.D(Med) thesis: University of Cape Town.

#### **UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE**

Winter TA. Medical management of inflammatory bowel disease: past, present and future. Specialist Medicine 2000; XXII:376-388 (invited reprint).

Louw JA. What to do about *H.pylori* in Africa. 2000. [www.GastroHep.com](http://www.GastroHep.com).

# GERIATRIC MEDICINE

**ACTING HEAD** - Dr SZ Kalula

## CONTACT DETAILS

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## DEPARTMENTAL PROFILE

Geriatric Medicine is still in its developmental phase in South Africa. This year the Unit has moved to further strengthen the development of locally appropriate, resource independent, problem focused and responsive services, paralleled with clinical training which emphasises interdisciplinary collaboration, which is community and outreach focused, and promotes bi-directional care.

The problem focused initiatives such as the Memory and Stroke Services, Syncope and TIA Clinics, have provided the much needed support to hospitals and the community. The participation in the Rehabilitation Services based at Conradie Hospital, has been of mutual benefit to medical professionals and students and has provided better patient care.

The recognition of the inescapable interdependence of Ageing disciplines led to the formulation of closer links between these disciplines. This has culminated in the establishment of the Institute of Ageing in Africa comprising of Geriatric Medicine with the strongly related disciplines of Gerontology (HSRC UCT Centre) and Psycho-Geriatrics. This has combined the strengths of each discipline and eliminated an unsustainable duplication of skills and resources, forming a strong cross-disciplinary partnership. This can only strengthen our research capacity and promote national and international links in education and research, further promoting better patient care. This will serve as a model for future Geriatric Service development in Sub-Saharan Africa, and respond to, and meet, the challenges of an Ageing Africa in the new millennium.

Research partnerships have been created with the International 10/66 Dementia Group and plans are underway to form links with the Oxford Department of Gerontology in the year 2001. The Unit is collaborating with the WHO in the establishment of an African minimum data set.

## PERMANENT & LONGTERM CONTRACT STAFF

Professors	1
Senior Lecturers	1
Senior Registrar	1
Medical Officers (part-time)	1
Secretarial & Admin staff	1

## HONORARY STAFF

Senior Lecturer	1
Lecturer	2

## STUDENTS

Masters	1
MPhil	1

## DISTINGUISHED VISITORS

Dr Martin Prince, London School of Hygiene and Tropical Medicine, UK. June 2000.  
Prof John Copeland, University of Liverpool, Liverpool, UK. June 2000

## **RESEARCH FIELDS**

### **Professor AO Wilson:**

Characteristics and Prevalence of Dementia in Rural and Urban Xhosa communities.  
Syncope, carotid sinus hypersensitivity, arrhythmias, and pacemakers.  
Stroke - interventions in morbidity and disability.

### **Dr S Z Kalula:**

Clinical predictors in the outcome of upper GIT haemorrhage.  
Epidemiology of dementia in developing countries

### **Dr L De Villiers:**

Stroke Rehabilitation (young stroke).

## **RESEARCH OUTPUTS**

### **THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES**

SZ Kalula. The development and testing of an instrument for assessment of dependency needs of older persons in South Africa. 1-135. MMed(Med) thesis. University of Cape Town.

### **OTHER**

#### **Congresses attended**

Kalula SZ. World Alzheimer Congress 2000 in Washington D.C. USA (July 15-18).

# HEART RESEARCH UNIT AND HATTER INSTITUTE FOR CARDIOLOGY RESEARCH

**HEAD OF DEPARTMENT**      Dr Michael N Sack (Director: Hatter Institute for Cardiology Research)  
Professor Lionel H Opie (Director: Heart Research Unit)

## CONTACT DETAILS

Postal Address:            Cape Heart Centre  
University of Cape Town  
Medical School  
Observatory, 7925  
Cape Town  
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Fax:                        (021) 447 8789  
Email:                      opie@capeheart, sack@capeheart

## DEPARTMENTAL PROFILE

During the past twelve months we have integrated the research within the Heart Research Unit and Hatter Institutes. This combined research entity is now probably the largest heart research group in the country, and incorporates molecular, cellular and physiological studies in heart disease. To enhance our productivity, we have consolidated the research programmes, and modestly expanded the number of research personnel. One additional master's student, one additional PhD student and one clinician postdoctoral fellow have joined the laboratory in the last twelve months.

A number of collaborative research initiatives have been established both in Cape Town and internationally. These include:

- Links between the Hatter Institutes, University College London and Cape Town.  
For the fourth consecutive year, formal collaboration between these institutes will be celebrated by the presentation Cardiology at the Limits – IV in Cape Town during October 2000. This symposium brings together experts in Cardiology from the USA, Europe and South Africa. The link with University College London has also resulted in obtaining combined funding for research from the Wellcome Trust in the UK.

- Collaboration with the University of the Western Cape.  
Professor Daneel Dietrich of the Department of Physiological Sciences, University of the Western Cape, has entered into a long-term research collaboration with us. She is now doing important preliminary research to enable her to apply for a distinguished Wellcome Trust Award in the United Kingdom. The collaboration which will be developed between the University of Cape Town and the University of the Western Cape during the tenure of such a fellowship is intended to be of an ongoing nature, so that the training of historically disadvantaged science students in South Africa will be facilitated by this plan.

- Collaboration with the Cardiac Clinic – GSH.  
Two clinicians have joined the laboratory and work concurrently in the cardiac clinic. These individuals (Dr David Marshall and Dr Chris McLeod) are supported, in part, by the cardiac clinic research fund.

Additional Research Collaborative Initiatives:

1. Washington University Medical School, St. Louis, MO, USA. Collaborative study with Dr Daniel P. Kelly - Center for Cardiovascular Research.
2. University of California, San Diego, San Diego, CA, USA. Collaborative Study with Dr Ken Chien.

## **PERMANENT AND LONG TERM CONTRACT STAFF**

### **Professor and Head, Heart Research Unit**

L H Opie MD DPhil FRCP DMed (Hon)

### **Senior Lecturer and Director, Hatter Institute for Cardiology Research**

M N Sack MBBCh PhD FACP

### **Honorary Professor**

D M Yellon PhD DSc Hon MRCP FACC FESC

### **Visiting Professor**

D Dietrich PhD (University of the Western Cape)

### **Postdoctoral Research Fellows**

F Essop PhD

J O Minners MD

R Smith PhD

D Marshall MBChB

C McLeod MBChB

### **Clinical Staff**

M Sack MBBCh PhD FACP

L H Opie MD DPhil FRCP DMed (Hon)

J O Minners MD

C McLeod MBChB

D Marshall MBChB

H Barrett

## **STUDENTS**

### **PhD Students**

N Manga

K Ngumbela

C McLeod

A Jonassen

### **MSc Candidates**

S Makaula

J J Meiring

### **Research Assistants**

L Lacerda

J McCarthy

## **RESEARCH FIELDS**

**Dr Michael Sack, Dr Faadiel Essop, Ms Kholiswa Ngumbela, Ms Nayna Manga, Mr Siyanda Makaula, Ms Joy McCarthy:**

Molecular regulation of cardiac energy metabolism and its contribution to heart disease.

**Dr Michael Sack, Professor Lionel Opie, Professor Derek Yellon, Professor Daneel Dietrich, Dr Jan Minners, Dr Chris McLeod, Dr Sandrine Lecour, Dr Rob Smith, Ms Anne Jonassen, Mr James Meiring, Ms Lydia Lacerda:**

Delineation of cellular and molecular mechanisms promoting cardiac protection.

## **RESEARCH OUTPUTS**

### **RESEARCH PAPERS AND REFEREED ARTICLES**

Opie LH. View point article: First line drugs in chronic stable effort angina – the case for newer longer-acting calcium channel blockers. Journal of the American College of Cardiology 2000; 36: 1967-1971.

Opie LH. Adverse cardiovascular drug interactions. Current Problems in Cardiology 2000; 25: 621-676.

Opie LH, Yusuf S, Kubler W. Current status of safety and efficacy of calcium channel blockers in cardiovascular diseases: a critical analysis based on 100 studies. *Progress in Cardiovascular Disease* 2000; 43: 171-196.

Opie LH. Diuretic downsides – but in low doses they still seem among the best authenticated antihypertensives. *Cardiovascular Drugs and Therapy* 2000; 14: 407-409.

Rayner BL, Opie LH, Davidson JS. The aldosterone/renin ratio as a screening test for primary aldosteronism. *South African Medical Journal* 2000; 90: 394-400.

Aitchison KA, Baxter GF, Awan MM, Smith RM, Yellon DM, Opie LH. Opposing effects on infarction of delta and kappa opioid receptor activation in the isolated rat heart: implications for ischemic preconditioning. *Basic Research in Cardiology* 2000; 95: 1-10.

Sack MN, Smith RM, Opie LH. Tumour necrosis factor in myocardial hypertrophy and ischaemia – an anti-apoptotic perspective. *Cardiovascular Research* 2000; 45: 688-695.

Awan MM, Makaula S, Forresti S, Sack MN, Opie LH. Mechanisms whereby glucose deprivation triggers metabolic preconditioning in the isolated rat heart. *Molecular and Cellular Biochemistry* 2000; 211: 111-121.

Minners J, van den Bos EJ, Yellon DM, Schwalb H, Opie LH, Sack MN. Dinitrophenol, cyclosporin A, and trimetazidine modulate preconditioning in isolated rat heart: support for a mitochondrial role in cardioprotection. *Cardiovascular Research* 2000; 47: 68-73.

Jonassen AK, Brar BK, Mjos OD, Sack MN, Latchman DS, Yellon DM. Insulin administered at reoxygenation exerts a cardioprotective effect in myocytes by a possible anti-apoptotic mechanism. *Journal of Molecular and Cellular Cardiology* 2000; 32: 757-764.

Sack MN, Harrington LS, Jonassen AK, Mjos OD, Yellon DM. Coordinate regulation of metabolic enzyme encoding genes during cardiac development and following carvedilol therapy. *Cardiovascular Drugs and Therapy* 2000; 14: 31-39.

Marshall D, Sack MN. Apoptosis: a pivotal event or an epiphenomenon in the pathophysiology of heart failure? *Heart* 2000; 84: 355-356.

Bell P, Sack MN, Patel A, Opie LH, Yellon DM. Delta opioid receptor stimulation mimics ischemic preconditioning in human heart muscle. *Journal for the American College of Cardiology* 2000; 36(7): 2296-2302.

## **BOOKS**

Opie LH. *Drugs for the Heart*, 5<sup>th</sup> Edition. W B Saunders Company. Philadelphia, 2000 (426 pages).

## **CHAPTERS IN BOOKS**

Kantor PF, Lopaschuk GD, Opie L H. Myocardial Energy Metabolism. In: *Heart Physiology and Pathophysiology*, 4<sup>th</sup> Edition. N Sperelakis, Y Kurachi, A Terzic, M V Cohen. Academic Press, San Diego, 2000. pp 543-569

## **ABSTRACTS**

Makaula S, Awan M, Lochner, Sack M, Opie L. H89, an inhibitor of PKA activity, administered as a pretreatment or with subthreshold preconditioning promotes recovery of contractile function following ischemia/ reperfusion - a putative novel cardioprotective agent. South African Heart Association Meeting, Stellenbosch, November 2000.

Sack M. TNF $\alpha$  and myocardial protection. South African Heart Association Meeting, Stellenbosch, November 2000.

Ngumbela K. Cardiac medium-chain acyl CoA dehydrogenase is downregulated at pre- and post-translational levels following acute hypoxia in mice. South African Heart Association Meeting, Stellenbosch, November 2000.

Meiring J. TNF $\alpha$  promotes tolerance against ischemic damage in myocytes via NF $\kappa$ B activation - a putative autocrine/paracrine mediator of ischemic preconditioning. South African Heart Association Meeting, Stellenbosch, November 2000.

van den Bos EJ, Minners J, Opie LH, Sack MN. Trimetazidine abolishes ischemic and drug-induced preconditioning: does mitochondrial protection antagonize preconditioning-like cardioprotection? American Heart Association Meeting, New Orleans, November 2000. *Circulation*, 102 (Suppl II); II-269; 2000.

Makaula S, Awan M, Lochner, Sack M, Opie L. H89, an inhibitor of PKA activity, administered as a pretreatment or with subthreshold preconditioning promotes recovery of contractile function following ischemia/ reperfusion - a putative novel cardioprotective agent. American Heart Association Meeting, New Orleans, November 2000. *Circulation*, 102 (Suppl II); II-269; 2000.

Minners J, Meiring JJ, van den Bos EJ, Opie LH, Sack MN. Inner mitochondrial membrane modulation in preconditioned myotubes: a putative role for mitochondrial homeostasis in enhanced tolerance to ischemia. American Heart Association Meeting, New Orleans, November 2000. *Circulation*, 102 (Suppl II); II-287; 2000.

Ngumbela K, Essop FM, McLeod C. Cardiac medium-chain acyl CoA dehydrogenase is downregulated at pre- and post-translational levels following acute hypoxia in mice. American Heart Association Meeting, New Orleans, November 2000. *Circulation*, 102 (Suppl II); II-344; 2000.

### **THESIS AND DISSERTATIONS**

MN Sack. Changing concepts of metabolic regulation in the heart. 1-190. PhD thesis. University of Cape Town.

S Makaula. Preconditioning and augmented preconditioning via manipulation of metabolic and signalling pathways in the rat heart. 1-122. MSc thesis. University of Cape Town.

# HYPERTENSION CLINIC

**HEAD OF DEPARTMENT** - Associate Professor Brian Rayner

## CONTACT DETAILS

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## DEPARTMENTAL PROFILE

### Completed research

Two projects were completed this year. The first related to the prevalence of PA in the Hypertension Clinic at Groote Schuur Hospital, and the second related to the normal ranges of aldosterone and renin in the normotensive population, and the prevalence of PA among hypertensives attending primary care clinics in the major ethnic grouping in the Western Cape. The former project was published in the South African Medical Journal, and the latter has been submitted for publication. The projects were done in conjunction with Prof. James Davidson from Chemical Pathology, and Prof J. Myers from Community Health.

### Research in progress

i) Prognostic significance of aortic unfolding in hypertensive patients.  
This is a pilot study to determine if unfolding of the aorta has prognostic significance in patients with hypertension. Recruitment of patients has been completed and analysis of the data is in progress with the view to publication.

ii) Primary Aldosteronism (PA)  
The major focus of the research activities of the Hypertension Clinic are in the field of primary aldosteronism.

### Projects in progress

a) Protocol for screening and investigation of primary aldosteronism.  
This project will investigate the sensitivity and specificity of the aldosterone/renin ratio as compared to the saline suppression test (the gold standard for diagnosing PA) in hypertensive patients with the view to developing cost effective strategies for the investigation of patients with hypertension in the South African context. Funding has been received from the SA Hypertension Society for this project. The project is being done in conjunction with Prof. James Davidson from Chemical Pathology, and Drs Soule and Raubenheimer from the Endocrine Dept.

b) Frequency of Epithelial Na<sup>+</sup> channel polymorphisms in the South African population  
This project is being done in conjunction with Prof. James Davidson from the Dept of Chemical Pathology. It stems from our observation that normotensive African patients have highly suppressed renin and aldosterone. Funding has been received from the SA Hypertension Society for this project.

iii) Fibrillin and Hypertension  
In conjunction with Prof. Eric Harley of the Dept. of Chemical Pathology research is being conducted into abnormalities in the fibrillin gene as a possible cause for essential hypertension. Funding has been received from the MRC for this work.

iv) Efficacy and safety of Indapamide SR 1.5 mg per os in 400 hypertensive NIDDM patients with microalbuminuria and essential hypertension.  
This is a multi-centre international trial comparing indapamide versus enalapril in reducing microalbuminuria in hypertensive NIDDM patients. The Hypertension Clinic is one of the participating centres, and the study is being co-ordinated by Dr Yvonne Trinder.

v) Clinical protocol for double-blind, randomised, placebo and active controlled comparison study of the antihypertensive effect and safety of eplerenone versus placebo and versus losartan in black and white hypertensive patients. Phase III clinical trial.



This is a multicentre international trial investigating the safety and efficacy of the new aldosterone antagonist, eplerenone, in black and white hypertensives. 18 patients were entered into the study at our site, and it was completed in November.

vi) A double blind randomized dose- response study of losartan in children with hypertension. This study will be started as soon as approval is obtained from the MCC.

vii) The efficacy of the AT1 receptor antagonist, losartan, in the treatment of patients with resistant low renin hypertension.

## **PERMANENT AND LONG TERM CONTRACT STAFF**

### **PROFESSIONAL**

#### **Full Time**

Professor Lionel Opie

Associate Professor Brian Rayner (Head of Dept)

Dr Biddy Buchanan-Lee

#### **Part-Time**

Dr. Jan Minnaars

Dr Louise Swanepoel

Dr. Bridget Brice

### **RESEARCH**

Dr Yvonne Trinder

Sister Helen Barrett

## **RESEARCH FIELDS**

**Associate Professor Brian Rayner:** Primary aldosteronism, AT1 receptor antagonists, contract research

**Dr Y Trinder:** Contract Research

## **RESEARCH OUTPUTS**

### **RESEARCH PAPERS AND REFEREED ARTICLES**

Rayner BL, Opie LH, Davidson JS. Aldosterone/renin ratio as a screening test for primary aldosteronism. South African Medical Journal 2000; 90: 387-94.

Soule SJ, Davidson JS, Rayner BL. The Evaluation of Primary Aldosteronism. South African Medical Journal 2000; 90: 387-394.

Rayner BL, Voigt M, Robson S, Kirsch R. Renal function and sodium handling in patients with portal vein thrombosis compared to normal controls. South African Medical Journal 2000 (in press).

### **CONGRESS ABSTRACTS**

Rayner BL, Opie LH, Trinder YA, Davidson JS. Primary aldosteronism; a community based survey in 3 ethnic communities in Cape Town, South Africa. American Journal of Hypertension 2000; 13: 175A.

### **INTERNATIONAL CONGRESSES**

Rayner BL, Myers J, Opie LH, Trinder YA, Davidson JS. Primary aldosteronism: a community based survey in 3 ethnic communities in Cape Town, South Africa. Congress on "Primary aldosteronism: into a new millennium", 15<sup>th</sup> Scientific meeting of the American Society of Hypertension, New York, 2000.

Rayner BL, Trinder YA, Davidson JS. Efficacy of losartan in patients with low renin resistant hypertension. All College, Limerick, Ireland, October, 2000.

# LIPID CLINIC AND LABORATORY

**HEAD OF DEPT** - Associate Professor AD Marais

## CONTACT DETAILS

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## DEPARTMENTAL PROFILE

The lipid clinic and laboratory of the University of Cape Town and Groote Schuur Hospital is in a strong position for providing expert opinion with respect to clinical and laboratory diagnosis of dyslipoproteinaemia and from this base, to perform research into disorders of lipid and lipoprotein metabolism of local and international interest. The clinic and laboratory, though small, are viewed as a local and international centre of expertise. The clinic and laboratory have been able to perform pharmaceutical studies for newer drugs to treat severe hypercholesterolaemia. The funds raised through these studies have allowed a diagnostic laboratory to develop and also permitted international collaborations into the mechanism of action of drugs, descriptions of dyslipoproteinaemia, and the metabolic derangements in dyslipoproteinaemia. One of the achievements from this group is the finding that statin drugs are effective in homozygous familial hypercholesterolaemia. This was explained by a reduced production of lipoproteins as their increased removal from the plasma is not possible due to the defect in this disorder. There is scope for expanding clinical and laboratory investigation provided that clinical service and administrative burdens do not preclude such development.

## PERMANENT AND LONG TERM STAFF

### Associate professors

A D Marais, Internal Medicine (lipid clinic and laboratory)

H E Henderson, Chemical Pathology (lipid laboratory)

J Davidson, Chemical Pathology (lipid clinic)

### Senior lecturers

Dr S G Soule, Internal Medicine (lipid clinic)

### Registrars

Dr D Blom, Internal Medicine (lipid clinic)

Dr Y Dhansay, Chemical Pathology (lipid clinic)

### Medical Officers

Dr JC Firth, Internal Medicine & Paediatrics, (lipid clinic and contract research)

Dr KH Wolmarans, (contract research)

Dr M E Bateman (lipid clinic)

### Nursing

Ms J K Ross, Provincial Administration of Western Cape (lipid clinic)

Ms RM Jooste, contract research

Ms G Anthony, Provincial Administration of Western Cape (lipid clinic)

### Dietitians

Ms Z Hamdulay, Groote Schuur Hospital Dietetics (lipid clinic)

Ms C A Fuller, (contract research)

### Laboratory Staff

Ms P Byrnes, Provincial Administration of Western Cape

Ms BD Ratanjee, Provincial Administration of Western Cape

Ms S Jones, contract research

Ms D Blackhurst, contract research

Ms M Levey, contract research

### Administrative Staff

Ms EA Phillips, University of Cape Town, secretary

Mr J Philander, University of Cape Town, laboratory assistant

Ms S Jorissen, data capture, contract research.

## STUDENTS

Mr R Marillier B Sc (hons) Cell Biology.

Ms A Rapolthy B Sc (hons) Sport Science

## RESEARCH FIELDS

**JC Firth, ME Bateman, SG Soule, J Davidson, Y Dhansay, D Blom, AD Marais:** Dyslipoproteinaemias in patients referred for management.

**JC Firth, KH Wolmarans, RM Jooste, CA Fuller, AD Marais:** ZD4522 in heterozygous and homozygous familial hypercholesterolaemia.

**JC Firth, KH Wolmarans, RM Jooste, CA Fuller, AD Marais:** fluvastatin 80mg slow release formulation in hypercholesterolaemia.

**JC Firth, KH Wolmarans, RM Jooste, CA Fuller, AD Marais:** atorvastatin in adolescents with familial hypercholesterolaemia.

**JC Firth, KH Wolmarans, RM Jooste, CA Fuller, M Levey, D Blackhurst, AD Marais:** atorvastatin, avasimibe and their combination in homozygous familial hypercholesterolaemia; Prevalence of apolipoprotein E R145C in type III hyperlipidaemia and black population.

**P Byrnes, S Jones, AD Marais:** Anti-oxidant effect of alcoholic beverages on lipid peroxidation in edible oils.

**D Blackhurst, AD Marais:** Breath tests for chylomicron remnant-like lipoproteins.

## RESEARCH OUTPUTS

### RESEARCH PAPERS AND REFEREED ARTICLES

Clee SM, Bissada N, Miao F, Miao L, Marais AD, Henderson HE, Steures P, McManus B, LeBoeuf RC, Kastelein JJP, Hayden MR. Plasma and vessel wall lipoprotein lipase have different roles in atherosclerosis. *Journal of Lipid Research* 2000; 41: 521-531.

Raal FJ, Pappu AS, Illingworth RI, Pilcher GJ, Marais AD, Firth JC, Kotze MJ, Heinonen TM, Black DM. Inhibition of cholesterol synthesis by atorvastatin in homozygous familial hypercholesterolaemia. *Atherosclerosis* 2000; 150: 421-428.

Marais AD. Therapeutic modulation of LDL particle size. *Current Opinion in Lipidology* 2000; 11(6): 597-602.

Berger GM, Marais AD. Diagnosis, Management and Prevention of the Common Dyslipidaemias in South Africa - Clinical Guideline, 2000. *South African Medical Journal* 2000; 90: 164-178.

### CONFERENCE ABSTRACTS

Familial defective apolipoprotein B is of varied origin in South Africa. AD Marais<sup>1</sup>, S Jones<sup>1</sup>, JC Firth<sup>1</sup>, P Byrnes<sup>1</sup>, JK Ross<sup>1</sup>, M Moodie<sup>1</sup>, D Gaffney<sup>2</sup>. <sup>1</sup>Lipid Laboratory, UCT Health Science Faculty, Observatory SA and <sup>2</sup>Pathological Biochemistry, University of Glasgow, Alexandra Parade, Glasgow, Scotland. 6<sup>th</sup> LASSA Symposium, Durban South Africa. April 2-4, 2000.

Use of gradient gel electrophoresis (GGE) to investigate lipoprotein particle size in apo-E knock-out mice expressing variable levels of lipoprotein lipase. S Clee<sup>1</sup>, HE Henderson<sup>2</sup>, BD Ratanjee<sup>3</sup>, MR Hayden<sup>1</sup>, AD Marais<sup>3</sup>. <sup>1</sup>Medical Genetics, Univ British Columbia, <sup>2</sup>Chemical Pathology and <sup>3</sup>Internal Medicine, Univ of Cape Town. 6<sup>th</sup> LASSA Symposium, Durban South Africa. April 2-4, 2000.

Modified Chugaev reaction for the derivation of cholesterol in lipoprotein fractions: a pilot study. AD Marais<sup>1</sup>, P Byrnes<sup>1</sup>, N Purdie<sup>2</sup>. <sup>1</sup>Internal Medicine, Univ Cape Town Health Science Faculty, <sup>2</sup>Chemistry Department, Oklahoma State University, Stillwaters, OK, USA. 6<sup>th</sup> LASSA Symposium, Durban South Africa. April 2-4, 2000.

Lipid oxidation in edible oils: an evaluation using three spectrophotometric methods. D. M. Blackhurst, A.D. Marais. Lipid Laboratory, Cape Heart Centre, Health Science Faculty, University of Cape Town, Observatory, 7925 South Africa. 6<sup>th</sup> LASSA Symposium, Durban South Africa. April 2-4, 2000.

Efficacy of Dietary Modification in Children with Familial Hypercholesterolaemia (FH). CA Fuller, JC Firth, K H Wolmarans, P Byrnes, RM Jooste, AD Marais. Lipid Laboratory, Internal Medicine, Health Science Faculty, University of Cape Town, Observatory 7925 South Africa. 6<sup>th</sup> LASSA Symposium, Durban South Africa. April 2-4, 2000.

The clinical approach to dyslipidaemia in South Africa. AD Marais. Lipid laboratory, Internal medicine, Health Science Faculty, University of Cape Town, Observatory 7925 South Africa. 6<sup>th</sup> LASSA Symposium, Durban South Africa. April 2-4, 2000.

Electrophoretic descriptions of lipoproteins for the diagnosis of dyslipoproteinaemias. AD Marais. Lipid Laboratory, Internal Medicine, Health Science Faculty, University of Cape Town, Observatory 7925 South Africa. 6<sup>th</sup> LASSA Symposium, Durban South Africa. April 2-4, 2000.

The use of gradient gel electrophoresis (GGE) to investigate lipoprotein particle size variation in apoE knockout mice expressing varying levels of lipoprotein lipase (LPL). Henderson HE, Clee S, Ratanjee BD, Hayden MR, Marais AD. Division of Pathology Research Day 29 March 2000.

Fluvastatin in heterozygous familial hypercholesterolaemia. Firth JC, Marais AD, Byrnes P, Fuller CA, Bonnici F. 35<sup>th</sup> Annual General Meeting of Association of European Paediatric Cardiology. Strasbourg, France. June 14-17, 2000.

Fluvastatin extended-release formulation is effective in treating primary hypercholesterolaemia. Insull W, Marais AD, Aronson R, Manfreda S. XII ISA, Stockholm, Sweden. June 25-29, 2000.

Efficacy and safety of cerivastatin 0.8mg versus pravastatin 40mg for treatment of dyslipidaemia. Rubinstein A, Marais AD, Szostak WB, Colquhoun D, Keber I, Werba JP, Bertolami M, Stoloro D, Tal S. XII ISA, Stockholm, Sweden. June 25-29, 2000.

The antioxidant effect of wine on lipid oxidation in edible oils. Blackhurst DM, Marais AD. Research Day, Department of Medicine, University of Cape Town. 05 October 2000.

A retrospective analysis of risk factors, clinical and angiographic characteristics in young females presenting with acute coronary syndromes. Pillay T, Commerford PJ, Marais AD. South African Heart Association Congress. Stellenbosch. 26-29 November 2000

#### **UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE**

Marais AD. Serum lipid-reducing agents. In: South African Medicines Formulary 5<sup>th</sup> Ed. Gibbon CJ (Ed.). Cape Town: South African Medical Association Health & Medical Publishing Group, 2000, pp150-156.

Marais AD. Dyslipidaemia in Diabetes Mellitus. *Specialist Medicine* 2000;22: 148-179.

Marais AD. Will more aggressive lowering of plasma cholesterol concentrations better prevent coronary heart disease? *South African Journal of Continuing Medical Education* 2000;18 (1):57,58 (Part I), 2000;18 (2): 168,169 (Part II), 2000;18 (3):252,253. (Part III).

# MRC/UCT LIVER RESEARCH CENTRE

**EXECUTIVE DIRECTOR** – Professor RE Kirsch

**CO-DIRECTOR** – Professor J. Terblanche

## CONTACT DETAILS

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## DEPARTMENTAL PROFILE

The Centre is multidisciplinary and its members consist of physicians, surgeons, biochemists, immunologists and pathologists. Apart from its laboratories in the Departments of Medicine, Surgery, Biochemistry, virology and Anatomical Pathology the Centre runs the only multidisciplinary, comprehensive, liver clinic, including a liver transplantation program, in Africa.

The Centre's Mission is to serve as a national resource by:

1. increasing the understanding of the liver in health and disease
2. identifying and studying diseases of the liver which occur in Southern Africa
3. identifying and studying measures capable of preventing liver disease
4. identifying and studying methods of improving the health of patients with liver disease
5. disseminating information which will allow health authorities and health workers to prevent liver disease, to promote health by emphasising dangers such as alcohol abuse and to improve the care of patients with already existing liver disease
6. developing human resources capable of continuing to fulfil our mission and in doing so to give preference where possible to persons disadvantaged as a result of discrimination on the basis of their race or gender.

Major areas of research include: porphyria, viral hepatitis, chronic hepatitis, immune abnormalities in liver disease, immunosuppressive factors in the venom of bitis arietans, the role of hepatic stem cells in experimental cirrhosis, liver transplantation, the pathogenesis of cardiovascular changes in portal hypertension, the role of portal systemic shunting in abnormal energy metabolism of liver disease, laparoscopic cholecystectomy, the treatment of bile duct calculi, the management of portal hypertension, and new methods of liver resection.

The Centre currently collaborates with 5 overseas and 3 South African universities and with 9 Departments within UCT.

## PERMANENT AND LONG TERM CONTRACT STAFF

Professors	5
Associate Professors	6
Senior Lecturers	9
Senior Research Officers	10
Technical Support Staff	10

**HONORARY STAFF** 3

## STUDENTS

Ph.D. students	8
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## RESEARCH FIELDS

**Kirsch RE:** Medical education, health services, porphyria, hepatitis, infection and liver disease, cardiovascular manifestations of portal hypertension

**Terblanche J:** Management of portal hypertension, new methods of liver resection laparoscopic cholecystectomy, treatment of bile duct calculi

**Bornman PC:** Management of portal hypertension, new methods of liver resection laparoscopic cholecystectomy, treatment of bile duct calculi.

**Hall P:** Alcoholic liver disease, chronic hepatitis, non-alcoholic steatohepatitis.

**Kahn D:** liver transplantation, liver regeneration

**Krige JEJ:** Management of portal hypertension, new methods of liver resection laparoscopic cholecystectomy, treatment of bile duct calculi

**Miller AJW:** Liver transplantation

**Shephard EG:** Immunology of liver disease

**Campbell JAH:** Experimental cirrhosis

**Hift RJ:** Porphyria, iron overload

**Spearman CWN:** Liver transplantation

**Matsiliza N:** Cardiovascular manifestations of portal hypertension

**Corrigall AV:** Porphyria

**Mall A:** The role of mucus in the pathogenesis of gallstones

**Meissner PN:** Porphyria

**Sturrock E:** Angiotensin converting enzyme

## RESEARCH OUTPUTS

### RESEARCH PAPERS AND REFEREED ARTICLES

Botha JF, Tandon V, Linley W, Mall A, Davsion D, McKenzie I, Kahn D. Prolonged survival of baboon renal allografts using idarubicin conjugated anti-CD4 monoclonal antibodies. *Transplantation International* 2000; 13 (Suppl 1): s480-S481.

Botha JF, Krige JEJ, Bornman PC. Current perspectives in the endoscopic management of non-variceal upper gastrointestinal bleeding. *Digestive Endoscopy* 2000; 12: 3-7.

Botha JF, Spearman CW, Millar AJW, Michell L, Gordon P, Lopez T, Butt A, Thomas J, McCulloch M, James M, Kirsch RE, Terblanche J, Kahn D. Ten years of liver transplantation at Groote Schuur Hospital. *South African Medical Journal* 2000; 90 (9): 880.

Corrigall AV, Hift RJ, Davids LM, Hancock V, Meissner D, Kirsch RE, Meissner PN. Homozygous variegate porphyria in South Africa: Genotypic analysis in 2 cases. *Molecular Genetics & Metabolism* 2000; 69: 323-330.

Kirsch R, Woodburne VE, Shephard EG, Kirsch RE. Neutrophil function is normal in patients with stable uncomplicated cirrhosis. *Gastroenterology and Hepatology* 2000; 15: 1298-1306.

Krige JEJ, Bornman PC, Goldberg PA, Terblanche J. Variceal Rebleeding and Recurrence after endoscopic injection sclerotherapy: A Prospective Evaluation in 204 patients. *Archives of Surgery* 2000; 135: 1315-1322.

Letier MH, Krige JEJ, Lemmer ER, Terblanche J. Injection sclerotherapy for variceal bleeding in patients with irresectable hepatocellular carcinoma. *Hepato-Gastroenterology* 2000; 47: 1672-1676.

Marr JDF, Krige JEJ, Terblanche J. Analysis of 153 gunshot wounds of the liver. *British Journal of Surgery* 2000; 87: 1030-1034.

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Pontin AR, Pascoe MD, Botha JF, Tandon V, Kahn D. Does rural follow-up of renal allografts give impaired graft survival? *Transplant International* 2000; 13: S92-S94.

#### **Articles in press**

Botha JF, Tandon V, Mall A, Linley W, Davison G, McKenzie I, Kahn D and Sandrin M. Prolonged survival of baboon renal allografts using idarubicin conjugated anti-CD4 monoclonal antibodies *Transplantation* 2000 (in press).

Corrigall AV, Hift RJ, Davids LM, Hancock V, Meissner D, Kirsch RE, Meissner PN. Identification of the first variegate porphyria mutation in an indigenous Black South African and further evidence for heterogeneity in variegate porphyria in South Africa. *Human Mutation* (submitted).

Creemers P, Pascoe MD, Pontin AR, Kahn D. Rebound effect of the allogenic T-cell response to donor and third party lymphocytes after cyclosporine withdrawal in renal transplant recipients. *Transplant Immunology* 2000 (in press).

Hift RJ, Corrigall AV, Hancock V, Meissner PN, Kirsch RE. The contribution of mutations in the HFE gene to porphyria cutanea tarda is population-dependent. *Journal of Hepatology* 2000 (in press).

Kahn D, Botha JF, Pascoe MD, Pontin AR. Withdrawal of cyclosporine (CsA) in renal transplant recipients with ATN improves renal function. *Transplant International* 2000 (in press).

Mall AS, Dent DM, McLeod H, Hickman R, Kahn D. Extraction isolation and SDS-PAGE analysis of purified gastric mucin in a patient with Menetrier's disease *Am J Gastroenterology* 2000 (in press).

Millar AJW, Hartley P, Khan D, Spearman CWN, Andronikou S, Rode H. Extended hepatic resection with transplantation back-up for an "unresectable" tumour. *Pediatric Surgery International* 2000 (In press).

Wiggins M, Bracher M, Mall A, Hickman R, Robson S and Kahn D. Tumour necrosis factor levels during acute rejection and acute tubular necrosis in renal transplant recipients. *Transplantation Immunology* 2000 (in press).

Bornman PC, Beckingham JJ, Krige JEJ. Gallstones pancreatitis – A Critical review of current treatment strategies. *South African Journal of Surgery* 2000 (In Press).

Krige JEJ, Bornman PC, Goldberg PA, Terblanche J. Variceal rebleeding and recurrence after endoscopic injection sclerotherapy: a prospective evaluation in 204 patients. *Archives of Surgery* 2000 (In Press).

Motale P, Mall A, Spearman CW, Lotz Z, Tyler M, Sheperd E, Kahn D. The effect of Mycophenolate Mofetil on Liver Regeneration. *Transplantation Proceedings*. (In Press).

#### **CHAPTERS IN BOOKS**

Krige JEJ, Bornman PC, Terblanche J. Complications of Sclerotherapy: CD ROM CHAPTER. In: Michael V Sivak (Ed). *Gastroenterology Endoscopy*, 2<sup>nd</sup> Edition. WB Saunders Co.: Philadelphia, 1999.

Krige JEJ, Bornman PC. Infections in hepatic biliary and pancreatic surgery. In: *Surgery of the Liver and Biliary Tract*, 3<sup>rd</sup> edition. Blumgart LH, Fong Y (eds). WB Saunders Co.: London; Edinburgh, New York Philadelphia, Vol. 1, 2000: 151-166.

Krige JEJ, Terblanche J. Endoscopic therapy in the management of esophageal varices: Injection sclerotherapy and variceal ligation. *Surgery of the Liver and Biliary Tract*, 3<sup>rd</sup> Edition. Blumgart LH, Fong Y (eds). WB Saunders Co.: London; Edinburgh, New York, Philadelphia, Vol. 2, 2000: 1885-1906.

## **In Press**

Beningfield SJ, Krige JEJ, Terblanche J. Global perspectives of surgical ultrasound: The African Experience. In: Meyers and Winters (Eds) *Ultraonography for Surgeons*. WB Saunders. Baltimore 2000 (In Press).

Bornman PC, Krige JEJ. Palliative Surgery for Pancreatic Cancer. In: Carter D, Russell RCG, Pitt H (Eds). *Rob and Smith's Operative Surgery*. Atlas of General Surgery, 3<sup>rd</sup> Edition. Chapman and Hall. London 2000 (In Press).

Bornman PC, Krige JEJ. Palliative Surgery for Pancreatic Cancer. In: Pitt H, Russell RCG, Carter D (Eds) *Rob and Smith's Operative Surgery*. Surgery of the Liver, Pancreas and Bile ducts. 5<sup>th</sup> Edition. Chapman and Hall Medical. London 2000. (In Press).

Krige JEJ, Bornman PC. Infections in Hepato-pancreatico-biliary surgery. In: Blumgart L, Fong Y (Eds) *Surgery of the Liver and Bile ducts*. 3<sup>rd</sup> Ed. WB Saunders. Baltimore 2000 (In Press).

Krige JEJ, Tait IJ. Peritonitis and intra-abdominal abscess. In: Mieny C, Mennen U (Eds). *Second Edition Principles of Surgical Patient Care*. Academia, JL van Schaik . Pretoria 2000 (in Press).

Krige JEJ, Terblanche J. Endoscopic sclerotherapy and variceal band ligation in the management of bleeding esophageal varices. In: Blumgart L, Fong Y. (Eds). *Surgery of the Liver and Bile ducts*. WB Saunders. Baltimore 2000 (In Press).

Krige JEJ, Terblanche J. Injection Sclerotherapy of Oesophageal Varices. In: Pitt H, Russell RCG, Carter D (Eds) *Rob and Smith's Operative Surgery*. Surgery of the Liver, Pancreas and bile ducts. 5<sup>th</sup> Edition. Chapman and Hall Medical. London 2000 (In Press).

Krige JEJ, Terblanche J. Injection Sclerotherapy of Oesophageal Varices. In: Carter D, Russell RCG, Pitt H (Eds). *Rob and Smith's Operative Surgery*. Atlas of General Surgery, 3<sup>rd</sup> Edition. Chapman and Hall. London 2000 (In Press).

Meissner PN, Hift RJ, Kirsch RE. Heme Biosynthesis and the Porphyrrias. In: Arias, Boyer et al (eds). *The Liver: Biology and Pathobiology*, 4<sup>th</sup> Edition, Raven Press, New York, 2000 (in press).

Spearman CWN, Hall P, Saunders S. Hepatic granulomas. In: *Oxford Text book of Clinical Medicine* (In press).

Terblanche J, Krige JEJ. Endoscopic therapy in the management of esophageal varices: injection sclerotherapy and variceal ligation. In: Nyhus, Baker, Fischer (Eds) *Mastery of Surgery*, 4<sup>th</sup> Edition 2000 (In Press).

## **CONFERENCE ABSTRACTS**

Douie WJP, Bornman PC, van Wyk M, Kidd M, Johnson CD, Fitzsimmons D. Which factors influence quality of life (QoL) in patients with chronic pancreatitis after surgery for intractable pain? Association of Surgeons of South Africa 22<sup>nd</sup> Biennial Congress Feather Market Center, Port Elizabeth 3-8 November 2000. *South African Journal of Surgery* 2000, 38: 23.

Douie WJP, Bornman PC, van Wyk M, Kidd M, Krige JEJ, Beckingham I, Terblanche J. Is surgery a viable therapeutic option in the management of pain in chronic pancreatitis. Association of Surgeons of South Africa 22<sup>nd</sup> Biennial Congress Feather Market Center, Port Elizabeth 3-8 November 2000. *South African Journal of Surgery Suppl*. Vol 38: 18.

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Hameed MF, Krige JEJ, Nicol A. Local complications after surgery for penetrating pancreatic injuries. . Surgical Research Society Meeting, Cape Town, July 2000.

Hameed MF, Krige JEJ, Nicol A. Morbidity of pancreatic resections for trauma. Association of Surgeons of South Africa 22<sup>nd</sup> Biennial Congress Feather Market Center, Port Elizabeth 3-8 November 2000.

Hameed MF, Krige JEJ, Nicol A. What is the morbidity of pancreatic resections for trauma? Association of Surgeons of South Africa 22<sup>nd</sup> Biennial Congress Feather Market Center, Port Elizabeth 3-8 November 2000. *South African Journal of Surgery Suppl* Vol 38:15.



Krige JEJ, Beningfield SJ, Bornman PC, Terblanche J. Percutaneous selective hepatic artery embolization is the treatment of choice for hepatic haemobilia.. 4<sup>th</sup> World Congress, Brisbane Australia 28<sup>th</sup> May – 1<sup>st</sup> June2000. Hepatobiliary International 2000; 2: 245.

Krige JEJ, Beningfield SJ, Bornman PC, Terblanche J. Subparietal hepaticojejunal access loop for intrahepatic stones. 4<sup>th</sup> World Congress, Brisbane Australia 28<sup>th</sup> May – 1<sup>st</sup> June2000. Hepatobiliary International 2000; 2: 118.

Krige JEJ, Bornman PC, Terblanche J. Pancreatoduodenectomy for complex pancreatic trauma. 4<sup>th</sup> World Congress, Brisbane Australia 28<sup>th</sup> May – 1<sup>st</sup> June2000. Hepatobiliary International 2000, 2: 214

Krige JEJ, Bornman PC, Terblanche J. Sclerotherapy versus surgery for longterm management of bleeding esophageal varices: Analysis of a prospective randomized controlled trial. 4<sup>th</sup> World Congress, Brisbane Australia 28<sup>th</sup> May – 1<sup>st</sup> June2000. Hepatobiliary International 2000; 2: 274.

Krige JEJ, Bornman PC, Terblanche J. Variceal rebleeding and recurrence after injection sclerotherapy: a prospective evaluation in 204 patients. 4<sup>th</sup> World Congress, Brisbane Australia 28<sup>th</sup> May – 1<sup>st</sup> June2000. Hepatobiliary International 2000; 2: 274.

Krige JEJ, Douie WJP, Bornman PC, Terblanche J. Variceal re-bleeding and recurrence after injection sclerotherapy: a prospective evaluation in 204 patients. South African Journal of Surgery Suppl. Vol 38: 17.

Krige JEJ, Marr JDF, Bornman PC, Terblanche J. Gunshot wounds of the liver. An analysis of 153 cases. 4<sup>th</sup> World Congress, Brisbane, Australia 28<sup>th</sup> May – 1<sup>st</sup> June2000. Hepatobiliary International 2000; 2: 245.

Krige JEJ, Swart N, Bornman PC, Terblanche J. Liver resection for colorectal metastases. Association of Surgeons of South Africa 22<sup>nd</sup> Biennial Congress Feather Market Center, Port Elizabeth 3-8 November 2000. South African Journal of Surgery Suppl Vol 38:11.

Mall A, Blows D, Taylor K, Tyler M, Lotz Z, Kahn D. Is there an association between H heilmannii infection, mucus degradation and ulceration of the pars oesophagea in the bile duct ligated pig? A Pilot Study. Surgical Research Society Meeting, Cape Town. July 2000.

Mall A, Hall P, Barnard R, Ho SB, van Rensburg M, Kahn D. The expression of Mucin in Cholangiocarcinoma. An Immunohistochemical Study. Surgical Research Society Meeting, Cape Town, July 2000.

Mall A, Suleman N, Kidd M, Taylor K, Tyler M, Lotz Z, Kahn D. The incidence of Helicobacter heilmannii in the normal pig stomach. Surgical Research Society Meeting, Cape Town, July 2000.

Mall A, Suleman N, Taylor K, Tyler M, Lotz Z, Kidd M, Kahn D. Is there an association between H heilmannii infection, mucus degradation and ulceration of the pars oesophagea of the abattoir pig stomach. Surgical Research Society Meeting, Cap Town, July 2000.

McCulloch M, Andronikou S, Hoffman EB, Goddard E, Kahn D. Avascular necrosis of the hip in paediatric renal transplant recipients. Paediatric Transplantation 2000; 4 (2): 122.

McCulloch M, Gilbert R, Eley B, Zuhlke L, McCurdie F, Pascoe M, Pontin A, Millar AJW, Kahn D. Overview of paediatric renal transplant programme in a developing country. Paediatric Transplantation 2000; 4 (2): 103.

Millar AJW, Spearman CWN, McCulloch M, Goddard L, Rode H, Kahn D. Paediatric liver transplantation in a developing country – taking stock. Paediatric Transplantation 2000; 4 (2): 129.

Mirza KM, Krige JEJ, Beningfield S, Cullis PC, Terblanche J. Longterm management of intrahepatic stones. Association of Surgeons of South Africa 22<sup>nd</sup> Biennial Congress Feather Market Center, Port Elizabeth 3-8 November 2000. South African Journal of Surgery Suppl. Vol 38:17.

Motale P, Mall A, Lotz Z, Tyler M, Sheperd E, Hall P, Hickman R, Kahn D. The effect of mycophenolate mofetil on liver regeneration. Surgical Research Society Meeting, Cape Town, July 2000.

Rowe P, Bautz PC, Nicol A, Kahn D. Accuracy of diagnostic tests for haemopericardium. . Surgical Research Society Meeting, Cape Town, July 2000.

Spearman CWN, McCulloch M, Goddard E, Millar AJW, Hartley P, Kahn D. Post-transplant lymphoproliferative disease (PLTD) in paediatric liver transplant recipients in a developing country. *Paediatric Transplantation* 2000; 4 (2): 53.

Spearman CWN, McCulloch M, Goddard EA, Hartley B, Prescott C, Kahn D, Millar AJW. Post transplant lymphoproliferative disease in paediatric liver transplant recipients in a developing country. 1<sup>st</sup> Congress of the International Pediatric Transplant Association Giorgio Cini Foundation Venice 23-25 August 2000.

Swart N, Douie WJP, Krige JEJ, Bornman PC. Is the training of surgical registrars adequate? Association of Surgeons of South Africa 22<sup>nd</sup> Biennial Congress Feather Market Center, Port Elizabeth 3-8 November 2000. *South African Journal of Surgery Suppl* Vol 38: 13.

Van Rensburg M, Krige JEJ, Beckingham I, Bornman PC, Terblanche J. Traumatic biliary fistula after liver injury. Association of Surgeons of South Africa 22<sup>nd</sup> Biennial Congress Feather Market Center, Port Elizabeth 3-8 November 2000. *South African Journal of Surgery Suppl* Vol. 38: 16.

### **THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES**

Hift RJ. Variegated Porphyria. Molecular basis and its biochemical and clinical consequences. 1-311. PhD thesis. University of Cape Town.

Siziba K. Expression, purification and characterisation of protoporphyrinogen oxidase from diverse species. 1-202. PhD thesis. University of Cape Town.

### **UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE**

Hift RJ. Prescribing for patients with liver disease. In: *South African Medicines Formulary 5<sup>th</sup> Edition 2000*. Gibbon CJ (Ed.). Cape Town: SAMA Health and Medical Publishing Group. 2000, p15-19.

Hift RJ. Prescribing for patients with porphyria and management of the acute attack. In: *South African Medicines Formulary 5<sup>th</sup> Edition 2000*. Gibbon CJ (Ed.). Cape Town: SAMA Health and Medical Publishing Group. 2000, p20-27.

### **INVITED TO PARTICIPATE IN JOURNAL DEBATES, PEER EXCHANGE & INSIGHTS INTO MEDICINE**

Behrns KE, Bornman PC, Bradley EL, Foxx-Oernstein AE, Heider TR, Theodore NP. Acute Pancreatitis and Pseudocyst Controversies in Management. *Medical Crossfire General Surgery* Ed. May 2000; 1: 18-31.

# NEUROLOGY UNIT

**HEAD OF UNIT** - Associate Professor RW Eastman

## CONTACT DETAILS

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## DEPARTMENTAL PROFILE

Research activity has continued despite a heavy clinical load. The acquisition of state-of-the art digital video and EEG equipment has greatly enhanced the surgical treatment of epilepsy programme, which is unique in South Africa. A Neurogenetics Clinic (jointly run with the Genetics Dept) in establishing a database of common local neurogenetic disorders, especially the familial neuropathies and spino-cerebellar ataxias.

An acute Stroke Unit is in operation (with the Geriatrics Dept) and is now equipped to high-care standard. A database of all stroke patients presenting to Groote Schuur Hospital has been created. Continuing medical education is now accelerating and the impact of this on medical practice is being investigated. The use of computers in medicine, and specifically to create a multi-media medical teaching course, is a focus of interest.

The Myasthenia Gravis Clinic is rapidly expanding and researching new immuno-therapy approaches to treatment.

## PERMANENT AND LONG-TERM CONTRACT STAFF

Associate Professor	1
Senior Lecturers (full-time)	3
Senior Lecturers (part-time)	1
Lecturer (part-time)	1

## STUDENTS

Neurology Registrars	3
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## RESEARCH FIELDS

**Assoc. Prof R W Eastman:** Epilepsy, epilepsy surgery, EMG, EEG

**Dr B M Kies:** Epilepsy, Parkinson's disease, headache, continuing medical education

**Dr A Bryer:** Stroke, neuro-genetics, spino-cerebellar ataxia

**Dr E B Lee Pan:** Myasthenia gravis, computer-based education, health systems information technology, epilepsy surgery

**Dr J Heckmann:** Myasthenia gravis, neuro-immunology, neuro-genetics, HIV-related neuropathies.

## DISTINGUISHED VISITORS

Prof A Compston (University of Cambridge): Multiple sclerosis.

Prof J Berger (University of Kentucky): AIDS.

Prof W Blume (University of Toronto): Epilepsy surgery.

Prof O Dulac (University of Paris): Paediatric epilepsy.

## RESEARCH OUTPUTS

## **RESEARCH PAPERS AND REFEREED ARTICLES**

- Kies B.M. CPD Points System - What doctors think. South African Medical Journal 2000; 90: 353-354.
- Bryer A, de Villiers L. Is CT Scan essential in the diagnosis of stroke. South African Medical Journal 2000; 90: 110-112.
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## **CONFERENCE ABSTRACTS**

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- Swanepoel A, Lee Pan E, Heckmann J, Tucker L. Clinical and Electrophysiological findings in glue sniffing neuropathy. NASA Conference, Drakensberg, March 2000.

## **UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE**

- Eastman R. Neurology for students. 2nd Edition. Neurology Unit, UCT, 2000.
- Kies, B.M. Anti-Parkinsonian Agents. In: South African Medicines Formulary. 5th Edition. Gibbon CJ (ed). South African Medical Association Health and Medical Publishing Group: Cape Town, 2000; 387-392.
- Bryer A. Antimigraine preparations. In: South African Medicines Formulary. 5th Edition. Gibbon CJ (ed). South African Medical Association Health and Medical Publishing Group: Cape Town, 2000; 370-374.
- Eastman R. Anti-epileptics. In: South African Medicines Formulary. 5th Edition. Gibbon CJ (ed). South African Medical Association Health and Medical Publishing Group: Cape Town, 2000; 375-386.

# NUTRITION & DIETETICS UNIT

**HEAD OF UNIT** - Associate Professor Karen Charlton

## CONTACT DETAILS

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## DEPARTMENT PROFILE

The Nutrition and Dietetics Unit was established in 1990 and is the only facility to offer postgraduate training in nutrition in the country, and indeed the region of Southern Africa, to enable science graduates to become state-registered dietitians, after following a 2-year postgraduate Bachelor of Science Medical Honours degree course. The Unit attracts mature students from a range of science backgrounds. In addition to the Honours programme, the unit currently also has students registered for Masters' degrees, by dissertation only.

Associate Professor Charlton is the recipient of a three-year Unifoods Doctoral fellowship which is administered through the Chronic Diseases of Lifestyle Programme at the Medical Research Council. A randomized controlled trial is being undertaken to assess the association between salt sensitivity, potassium supplementation, body composition and blood pressure in black South African subjects.

Important work on determinants of food security in South Africa was undertaken during 2000, in collaboration with Professor Donald Rose from Michigan State University who was awarded a MRC Visiting Scientist Grant to spend 3-months in the Unit. Secondary analysis was conducted on data from 29580 households, collected as part of the 1995 Income and Expenditure Survey by Statistics South Africa. The research findings identified that 43.5% of South African households were in "food poverty" (i.e. could not afford to purchase a basic subsistence diet) in 1995. This type of information is useful to enable prioritisation of nutrition and poverty alleviation interventions.

Vitamin A deficiency is a public health problem in South Africa. Ms. Lindi Sibeko, a South African born Master's student from McGill University, Canada, spent six months in the Unit to conduct fieldwork for a study to investigate the Vitamin A and nutritional status of infants aged 1 – 6 months in an informal settlement in Cape Town. The association between infant feeding practices, maternal nutritional status and infant micronutrient status was assessed.

A survey of the quality and nutritional adequacy of meals provided to orthopaedic patients at Groote Schuur Hospital was recently undertaken by the Unit. It was found that up to 40% of patients interviewed during the study period, rejected at least one of the meals provided. The nutrient analysis of the meals provided to patients showed that it was inadequate in terms of energy, protein and several micro-nutrients.

In addition to teaching and research activities, the Unit has a comprehensive outreach extension service, run under the auspices of the Nestle Nutrition Resources Centre which is housed within the Unit. Partnerships have been created with communities in Heideveld, Hout Bay, Woodstock and in George. Each year, students conduct a field study on a nutrition topic relevant to the social upliftment of impoverished communities, as identified by community representatives and NGOs. In 2000, the Unit developed a nutrition education component for the Chrysalis project, a three-month residential initiative undertaken by the Dept. of Community Safety in the Western Cape to provide male school-leavers, who are at high risk for involvement in crime, with skills in order to improve job opportunities.

A growing activity of the Nutrition Resources Centre is a telephonic service to the public, with many of the enquiries resulting in collaboration with community projects and expansion into research investigations conducted by honours postgraduate honours students.

## PERMANENT AND LONGTERM CONTRACT STAFF

A.Prof/ Head of Unit	1
Lecturers	2
Part-time lecturers	2
Secretarial Staff	1

## STUDENTS

1 <sup>st</sup> Postgraduate Year (Hons)	13
2 <sup>nd</sup> Post graduate Year (Hons)	8
M.Sc. Students	2

## RESEARCH FIELDS

**Assoc. Professor K Charlton:** Salt sensitivity and blood pressure in transitional communities; nutrition and successful ageing; nutrition and cognitive functioning; nutritional epidemiology; prevention and management of obesity and other chronic diseases; body composition.

**Mrs M Visser:** Clinical nutrition; nutritional epidemiology; nutrition and HIV/AIDS; nutritional biochemistry.

**Ms I. Schloss:** Nutritional status and growth; gastro-enterology; community nutrition.

## DISTINGUISHED VISITORS

Prof. Donald Rose, Dept. Agriculture and Economics, Michigan State University, USA (Recipient of MRC Visiting Scientist Grant): Nutrition economist and nutrition policy consultant.

Ms. Lindi Sibeko, Department of Nutrition, McGill University Canada: Lactation consultant and community dietician.

Associate Professor Linda Tapsall, Wollangong University, Australia: Validations of dietary methodology, metabolic studies on substrate utilization.

Professor Prakash Shetty, London School of Hygiene and Tropical Medicine, United Kingdom: Nutrition in developing countries, body composition and energy expenditure assessment, protein metabolism.

## RESEARCH OUTPUTS

### RESEARCH PAPERS AND REFEREED ARTICLES

Charlton KE, Schloss IC, Visser M, Lambert EV, Kolbe T, Levitt NS, Temple N. Waist circumference predicts clustering of cardiovascular risk factors in older South Africans. *Cardiovascular Journal of Southern Africa*. (In press).

Visser ME, Vengetasamy T, Levitt NS. Inadequate nutritional knowledge, attitudes and practices of general practitioners in the Western Cape. Contributing factors to morbidity in patients with chronic diseases of lifestyle? *Journal of Epidemiology, Metabolism and Diabetes of South Africa (JEMDSA)*. (In press).

Charlton KE, Bourne LT, Steyn K, Laubscher JA. Poor nutritional status of older black South Africans. *Asia Pacific Journal of Clinical Nutrition*. (In press)

Lewandowski S, Rodgers A, Schloss I. The influence of a high oxalate – low calcium diet on calcium oxalate renal stone risk factors in non-stone forming black and white South African subjects. *Kidney International* 2000; 300-301.

Love P., Maunder E, Green M, Ross F, Smale-Lovely J, Charlton KE. South African food-based dietary guidelines. Testing of the preliminary guidelines among women in Kwa-Zulu Natal and the Western Cape. *South African Journal of Clinical Nutrition* (in press).

Caradas A, Lambert EV, Charlton KE. An ethnic comparison of eating attitudes and associated body image concerns in South African schoolgirls. *Journal of Human Nutrition Dietetics* (in press).

Molteno C, Smit I, Mills J, Huskisson J. Nutritional status of patients in a long-stay hospital for people with mental handicap. *South African Medical Journal* 2000; 13: 145-149.

Patel M, Steyn K, Bourne LT, Charlton KE, Jooste P, Laubscher R. The risk profile for chronic diseases of lifestyle in older black persons of the Cape Peninsula: The BRISK study. *South African Journal of Gerontology* 2000; 9(1): 20-24.

Charlton KE. Nutrition, health and old age: the case of urban South African elderly. *South African Journal of Clinical Nutrition* 2000; 13(S): S31-S38.

Charlton KE, Schmidt M. Structured, Holistic Approach for Research Planning (SHARP). *South African Journal of Clinical Nutrition* 2000; 13(S): S31-S38.

L'Ons A, Jooste PL, Weight MJ, Huskisson J. A field clinical trial of the short-term effects of iodised salt on the iodine status of rural primary school children. *South African Medical Journal* 2000; 90: 31-35.

#### **CHAPTERS IN BOOKS**

Charlton KE, Schloss I. Anaemia in the elderly. In: *Geriatric Practice*. Roseville, Australia: McGraw Hill, In press.

#### **PUBLISHED CONFERENCE PROCEEDINGS**

Charlton KE, Luft FC. Hypertension and dietary electrolyte intake. In: 8<sup>th</sup> World Salt Symposium. Volume 1. (Editor:RM Geertman). Amsterdam: Elsevier Science B.V., 2000: pp 39-48.

Lewandowski S, Rodgers AL, Schloss I. The influence of a high oxalate diet on the risk of calcium oxalate renal stone formation in healthy black and white South Africans. In: 9<sup>th</sup> International Symposium on Urolithiasis. Volume 1. Rodgers AL (ed). Cape Town, 2000

#### **UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE**

Charlton KE. Vitamins. In: *South African Medicines Formulary*, 5<sup>th</sup> Edition. Gibbon CJ (ed). South African Medical Association Health and Medical Publishing Group: Cape Town, 2000, pp 73-84.

Walker ARP, Charlton KE. Ageing and nutrition in Africa: transitional changes. *Nutrition Today*: In press.

Charlton KE, Visser ME. Nutrition in Medical Practice: A need for nutrition education for medical practitioners. *Update* 2000; May: 68-69.

Charlton KE. Nutrition in Medical Practice: Diet and blood pressure: To salt or not to salt? *Update* 2000; June: 73-81.

Schloss I, Eating right to prevent cancer. *Update* 2000 (August): 71-80.

Visser ME and Aginsky J. The glycaemic Index (GI): A useful concept in the dietary management of people with Diabetes Mellitus? *Update* June 2000; June: 62-67

#### **CONFERENCE ABSTRACTS**

Charlton KE, Lovely J, Love P. Food Based Dietary Guidelines: One size fits all? Biennial Nutrition Congress of South Africa, Durban, 15 – 18<sup>th</sup> August 2000.

Charlton KE, on behalf of the Food Based Dietary Guidelines (FBDG) Working Group. Food Based Dietary Guidelines: the way forward. Biennial Nutrition Congress of South Africa, Durban, 15 – 18<sup>th</sup> August 2000.

Charlton KE, London L, te Water Naudé J, Sayed R, Dausab M, Marco C, Rendell K, Swart R. Poverty, alcohol and nutritional status in farmworkers in the Western Cape. Biennial Nutrition Congress of South Africa, Durban, 15 – 18<sup>th</sup> August 2000.

Rose D, Charlton KE. Food insecurity and food poverty in South African households. Biennial Nutrition Congress of South Africa, Durban, 15 – 18<sup>th</sup> August 2000.

Lambert EV, Weitz W, Charlton KE, Labert MI, Kubukeli Z, Keytel L, Temple N, Daniels A. Health and fitness survey in adolescent schoolchildren in the Western Cape: relationship to body mass index and obesity. Biennial Nutrition Congress of South Africa, Durban, 15 – 18<sup>th</sup> August 2000.

Schloss I, Huskisson J, Reay G, Charlton KE, Saitowitz R, Hendricks M, Shung King M, Irlam J, Hussey G, Ernten K. Vitamin A brochure improves knowledge of Primary Health Care (PHC) workers. Biennial Nutrition Congress of South Africa (Poster), Durban, 15 – 18<sup>th</sup> August 2000.

Caradas A, Lambert EV, Charlton KE. An ethnic comparison of eating attitudes and associated body image concerns in South African schoolgirls. 13<sup>th</sup> International Congress of Dietetics. Edinburgh, United Kingdom, 24 – 27 July 2000.

Charlton KE, Lambert EV. Out of the frying pan... into the fire. Emerging obesity in South Africa. Invited presentation to scientists at Unilever Head Office, Vlaardingen, Netherlands, 21 July 2000.

Caradas A, Lambert EV, Charlton KE. An ethnic comparison of eating attitudes and associated body image concerns in South African schoolgirls. 36<sup>th</sup> Society for Endocrinology, Metabolism and Diabetes of South Africa (SEMDSA) Congress. Durban, 2-7 April 2000.

Visser ME. Dietary requirements for people living with HIV/AIDS: enough evidence for specific dietary guidelines? Biennial Nutrition Congress of South Africa, Durban, 15-18<sup>th</sup> August 2000.

Croucher L, Schloss I, Bourne LT: Nutritional status and infant feeding practices of infants attending Nolongile Day Hospital in Khayelitsha. Biennial Nutrition Congress of South Africa, Durban, 15-18<sup>th</sup> August 2000.

Harrison V, Fawcus S, de Santos N, Peat G, Charlton KE. The association of maternal magnesium status with hypoxic-ischaemic Encephalopathy of the newborn. 7<sup>th</sup> World IAMANEH Conference, Stellenbosch CT 2 – 5 April 2000.

Aginsky J, Visser ME and Levitt NS. The Inter- and Intra- individual variation in glycaemic and insulin responses to glucose and white bread in healthy male students. Biennial Nutrition Congress of South Africa, Durban, 15-18<sup>th</sup> August 2000.

#### **UNPUBLISHED RESEARCH/TECHNICAL / POLICY DOCUMENTS:**

Te Water Naude JM, Charlton KE, Sayed R, Dausab M, Marco C, Rendall-Mkosi K, London L: The Dopstop Association – Promoting health on farms – Stellenbosch, 1998. Health Systems Trust, 2000.

Charlton KE. Nutrition and ageing in Africa: policy issues. Invited paper at the Organization of African Unity (OAU) Policy Framework on Ageing meeting. Kampala, Uganda, 27 November – 1 December 2000.

#### **CONSULTANCIES AND OTHER COMMUNITY ACTIVITIES BASED ON EXPERTISE DEVELOPED IN RESEARCH**

##### **Charlton KE**

Member of Working Group for Development of National Food Based Dietary Guidelines.

Chairperson of Working Group for Development of Dietary Guidelines for Elderly South Africans.

Member of Working Group for the Development of National Guidelines on the Prevention and Management of Obesity (Initiative of National Department of Health and South African Society for the Study of Obesity (SASSO)).

Member of Nutrition Advisory Committee of Nutrition Directorate of Department of Health: Western Cape.

International Union of Nutritional Sciences' (IUNS) Committee on Nutrition and Ageing: member.

Member of Scientific Committee: Biennial South African Nutrition Congress 2000.

##### **Schloss I**

Member of Site Development & Multi-disciplinary Committee (UCT).

##### **Visser ME**

Member of MBChB curriculum development committee (UCT)

Member of National Advisory panel on the Glycaemic Index (GI)



# RENAL UNIT

**HEAD OF DEPARTMENT** - Dr MD Pascoe

## CONTACT DETAILS

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## DEPARTMENTAL PROFILE

The department continues to follow many of the same research directions as before. The emphasis on studies in relation to the HI virus and its effect on the kidney continues. Collaboration between the renal unit and the infectious disease group is being developed as well as collaboration with colleagues in the eastern Cape at Umtata and Port Elizabeth. The huge impact of this disease and its effects on the kidney and the implications of this for the provision of renal services are of major importance.

## PERMANENT AND LONG TERM CONTRACT STAFF

### Associate Professors

BL Rayner  
CR Swanepoel  
R van Zyl Smit

### Senior lecturers

Dr JA Halkett  
Dr MD Pascoe

### Students

Medical Registrars. 3 (1 Senior)  
International Society of Nephrology Fellow. 1.

## RESEARCH FIELDS

**Dr M D Pascoe:** Fine needle aspiration biopsy of renal allografts. Renal pathology with HIV disease. Factors influencing long term renal graft survival. Cost effective drug strategies in transplantation - the role of ketoconazole in combination with cyclosporin and tacrolimus. New immunosuppression protocols for renal transplantation.

**Dr J A Halkett:** Anaemia and iron metabolism in chronic renal failure; Aluminium overload in haemodialysis patients. Acute renal failure: Demographics and outcome at Groote Schuur Hospital; Renal pathology with HIV disease; Outcome of haemodialysis treatment for acute renal failure in patients with HIV infection

**Associate Professor B L Rayner:** Research activities are based in the hypertension clinic. Nil renal.

**Associate Professor C R Swanepoel:** Renal Osteodystrophy & Lanthanum carbonate. Hepatitis G & the kidney. Sildenafil & erectile dysfunction in patients with renal disease

**Associate Professor R van Zyl Smit:** Genetics of renal disease, chronic renal failure, focal sclerosing glomerulonephritis, proteinuric disease. Lipid abnormalities, chronic renal failure, post transplantation

## RESEARCH OUTPUTS

### RESEARCH PAPERS AND REFEREED ARTICLES

Pascoe MD, Marshall SE, Welsh KI, Fulton LM, Hughes DA. Increasing the accuracy of renal allograft rejection diagnosis using combined perforin, granzyme B and Fas-ligand fine-needle aspiration immunocytology. *Transplantation* 2000; 69 (12): 2547-2553.

Pascoe MD, Hughes DA. Fine needle aspiration biopsy and cytology in renal transplantation. *Current Opinion in Nephrology and Hypertension* 2000; 9: 689-694.

Tandon V, Botha JF, Banks J, Pontin AR, Pascoe MD, Kahn D. A Tale of two kidneys. How long can a kidney transplant wait. *Clinical Transplantation* 2000; 14 (3): 189-192.

Pontin AR, Pascoe MD, Botha JF, Tandon V, Kahn D. Does rural follow-up of renal allografts give impaired graft survival. *Transplantation International* 2000; [Suppl 1]: S 92-S94.

Kahn D, Botha JF, Pascoe MD, Pontin AR, Halkett J, Tandon V. Withdrawal of cyclosporine in renal transplant recipients with acute tubular necrosis improves renal function. *Transplantation International* 2000; 13 [Suppl 1]: S82-S83.

Taal MW, van Zyl-Smit R. Hepatitis C virus infection in chronic haemodialysis patients--relationship to blood transfusions and dialyser re-use. *South African Medical Journal* 2000; 90(6): 621-625.

Van Zyl-Smit R, Mills P, Vogelpoel L. Unrecognized acute renal failure following the comrades marathon. *South African Medical Journal* 2000; 90(1): 39-40.

Pascoe MD, Hughes DA. Fine needle aspiration biopsy and cytology in renal transplantation. *Current Opinion in Nephrology and Hypertension* 2000; 9: 689-694.

### CONFERENCE ABSTRACTS

Presented at the XXIIth Congress of the South African Renal Society and XXth Congress of the Renal Care Society of South Africa Somerset West, October 2000:

Rayner BL. Peritoneal Dialysis - the Cape Town experience.

Rayner BL. The use of computers in the peritoneal dialysis unit.

Rayner BL, Hollander M, Willett C. Nutritional assessment and adequacy of dialysis in CAPD patients.

Twahir M, Halkett J, Duffield M, Pascoe M. A five year retrospective study of renal biopsy diagnosis in HIV positive patients in Groote Schuur hospital, Cape Town South Africa.

Halkett J. European survey of anaemia management (ESAM): The South African data.

Swanepoel C, Gerntholtz T. The use of sildenafil for erectile dysfunction in patients with renal disease.

Stead P, Halkett J, Kahn D, Pascoe M. Long-term renal transplant survivors at Groote Schuur hospital.

Pascoe M, Halkett J, Findlayson J, Davies Y. Fine needle aspiration cytology, early evaluation of a clinical role.

M Maree, Halkett JA. The use of low calcium dialysate in hypercalcemic haemodialysis patients.

Fisher G, Twahir M, Pascoe MD, Halkett JA. Haemodialysis therapy for acute renal failure in patients with retroviral disease.

Presented at the Renal Management Update, SA Renal Society meeting October 2000:

Van Zyl Smith R. Lipid abnormalities in patients with renal disease.

Halkett JA. Approach to anaemia in the chronic renal failure patient.

Pascoe MD. New drugs in renal transplantation.

Swanepoel C. Preventable nephropathy.

### UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE

De Tout E, Pascoe MD, Thomson P. Combined report on Maintenance Dialysis and Transplantation in the Republic of South Africa (1998). *South African Dialysis and Transplant Registry (SADTR)*.

Pascoe MD. *The Cape Gliding Club - The first 50 years*. Red Roof Publishing January 2000. ISBN: 0-620-25530-7.

# RESPIRATORY CLINIC

**HEAD OF DEPARTMENT** – Professor ED Bateman

## CONTACT DETAILS

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Webpage: <http://www.uct.ac.za/depts/respiratory/>

## DEPARTMENTAL PROFILE

The main clinical service areas of the Respiratory Clinic are the outpatients clinic and the Respiratory Intensive Care Unit located in GrooteSchoor Hospital. Its base for research and expanded clinical service is the UCT Lung Institute. The Institute is located in a new purpose designed four-storey building on the Health Sciences Faculty campus officially opened in April 2000. In addition, clinic staff provide a consultancy service at secondary hospitals including the regional tuberculosis hospitals. Research and academic activities extend beyond this, and members of staff are highly specialised in different aspects of respiratory and critical care medicine and allergology and make notable contributions to the development of public policy, professional societies and local and international academic activities and research in these fields. In the Lung Institute, the Lung Clinical Research Unit is one of 5 units involved in collaborative activities, the others being an Allergology and Diagnostic Unit, an Occupational Health Unit, an Infectious Diseases Unit and a Skin Centre. Together these units share the goal of promoting lung health and improving the treatment of respiratory and related diseases in Southern Africa.

## PERMANENT & LONGTERM CONTRACT STAFF

Professor	1
Associate Professors	3
Senior Lecturers	1

## RESEARCH STAFF

Medical Officers	3
Nursing study co-ordinators	7
Research Assistants	2
Admin & clerical staff	2

## TECHNICAL SUPPORT STAFF

Chief Technologist	1
Principal Technologist	1

## STUDENTS

Doctoral MD/PhD	3
MMed: FCP	4
MSc	1

## RESEARCH FIELDS

**Professor E.D. Bateman:** Disease management, pharmacology, and epidemiology of asthma and chronic obstructive pulmonary disease; classification and treatment of diffuse parenchymal lung diseases; treatment of tuberculosis.

**Associate Professor G.M. Ainslie:** Clinical features and treatment of sarcoidosis; treatment of cryptogenic fibrosing alveolitis; cryptogenic organising pneumonia; clinical patterns of asthma; alpha1-antitrypsin deficiency.

**Dr R.I. Raine:** Airway management in critical care; septic shock; antimicrobial therapy in candidaemia; analgesia and sedation in critical care; the role of surfactant administration in the management of ARDS; prognostic indicators in critical care.

**Associate Professor N.W. White:** Lung disease in ex-miners; epidemiology of silicosis in gold miners; lung function reference equations; tuberculosis in miners; occupational asthma; radiological classification of pneumoconiosis; effects of air pollution upon the health of children.

**Associate Professor P.A. Willcox:** Multi-drug-resistant tuberculosis; lung cancer; cystic fibrosis; community-acquired pneumonia; nocardial infections; bacterial endocarditis.

**Dr H Zar:** Gastro-oesophageal reflux in asthma; near-fatal and fatal asthma.

## RESEARCH OUTPUTS

### RESEARCH PAPERS AND REFEREED ARTICLES

Bateman ED, Adler L, Chyrek-Borowska S, Theman K, Rogeaux Y, Schultze-Werninghaus G, Nel AM, Pasquet J-P, Notelet D, Hardy P, Petillo J, Banerji D. 2000. Inhaled Triamcinolone acetonide HFA 450µg twice daily compared with beclomethasone dipropionate CFC 500µg twice daily in adults with moderate persistent asthma. *Clinical Drug Investigation* 2000; 20: 1-9.

Bateman ED. Salmeterol/fluticasone propionate combination. Guest commentary. *Drugs* 1999; 57: 941-943.

Laloo UG, Bateman ED, Feldman C, Bardin PG, Plit M, Irusen EM, O'Brien J. Guidelines for the management of chronic asthma in adults - 2000 Update. For the South African Pulmonology Society Adult Asthma Working Group. *South African Medical Journal* 2000; 90: 540-552.

Willcox PA. Drug-resistant tuberculosis. *Current Opinions in Pulmonary Medicine* 2000; 6: 198-202.

Zar HJ, Bateman ED. Near-fatal asthma – a review. *South African Journal of Critical Care* 2000; 16: 5-9.

### CHAPTERS IN BOOKS

Lewis SJ, Ainslie GM, Bateman ED. Efficacy of azathioprine as second-line treatment in Pulmonary sarcoidosis. In: 'The Golden Book: Sarcoidosis 1994/1999. Fidenza (Parma): Casa Editrice Mattioli; 2000: 176 – 181.

### CONFERENCE ABSTRACTS

Ainslie GM, Bateman ED. Natural history of patients presenting with chest radiographic Stage 4 pulmonary sarcoidosis. *European Respiratory Journal* 2000; 16: 390s. World Lung Health Congress, Florence, Italy.

Ainslie GM, Latib MA. The concordance of different criteria for asthma severity as proposed by the SAPS Guidelines. *South African Respiratory Journal* 2000; 6:84. COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

Ainslie GM, Bateman ED. Natural history of patients presenting with chest radiographic Stage 4 pulmonary sarcoidosis. *European Respiratory Journal* 2000; 16: 390s. World Lung Health Congress, Florence, Italy.

Ainslie GM, Bateman ED. Natural history of patients presenting with chest radiographic Stage 4 pulmonary sarcoidosis. *South African Respiratory Journal* 2000; 6: 84. COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

Bateman ED, Jenkins C, Woolcock A, Sykes J. 'Total' asthma control with salmeterol/ fluticasone propionate (FP) combination compared with budesonide at a higher microgram steroid dose. *South African Respiratory Journal* 2000; 6: 86 . COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

Bateman ED, Poyser M, Zar HJ, Parnell S. Correlation between near fatal and fatal asthma attacks and socio-economic deprivation in Cape Town South Africa. *South African Respiratory Journal* 2000; 6: 86. COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

Bateman ED, Notelet D, Francois MH, Hardy P, Banerji D. Once daily regimen of triamcinolone acetonide (TAA) HFA inhalation aerosol maintains asthma control in adults. *European Respiratory Journal* 2000; 16:34s. World Lung Health Congress, Florence, Italy.

Bateman ED, Notelet D, Francois MH, Hardy P, Banerji D. Once daily regimen of triamcinolone acetonide (TAA) HFA inhalation aerosol maintains asthma control in adults. *South African Respiratory Journal* 2000; 6: 86. COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

Bateman ED, Kruger MJ. A computer-based home-monitoring disease management programme, PulmAssist Plus (PAP), achieves significant improvement in quality of life, and healthcare costs in moderate and severe asthma. *American Journal of Respiratory and Critical Care Medicine* 2000; 161:s. International Conference of the American Thoracic Society, Toronto, Canada.

Bateman ED, Kruger MJ. Improvements in prescriptions and healthcare utilisation in patients with moderate or severe asthma enrolled in a 12 month study with the Pulmassist® Plus (PAP) disease management programme. *American Journal of Respiratory and Critical Care Medicine* 2000; 161:s. International Conference of the American Thoracic Society, Toronto, Canada.

Bateman ED. Comparison of salmeterol/ fluticasone propionate combination 50/100 BID delivered via metered dose inhaler or diskus in patients with reversible airways obstruction. *American Journal of Respiratory and Critical Care Medicine* 2000; 161:s. International Conference of the American Thoracic Society, Toronto, Canada.

Bateman ED, Poyser M, Zar H J, Parnell S. Correlation between near-fatal and fatal asthma attacks and socio-economic deprivation in Cape Town, South Africa. *European Respiratory Journal* 2000; 16:368. World Lung Health Congress, Florence, Italy.

Bateman ED, Johansson G, Drake F. Comparable overall control of moderate asthma with salmeterol/fluticasone propionate (FP) combination (50/100 mcg bd) compared with a four-fold higher dose of budesonide (400 mcg bd). *European Respiratory Journal* 2000; 16:456s World Lung Health Congress, Florence, Italy.

Bateman ED, Jenkins C, Woolcock A, Sykes J. 'Total' asthma control with salmeterol/fluticasone propionate (FP) combination compared with budesonide at a higher microgram steroid dose. *European Respiratory Journal* 2000; 16:457s. World Lung Health Congress, Florence, Italy.

Darmalingam M, Ainslie GM, Goodman H, Wainwright H, Bateman ED. Lack of correlation between high resolution computer tomography and surgical lung biopsy in idiopathic pulmonary fibrosis. *South African Respiratory Journal* 2000; 6:90. COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

Latib MA, Ainslie GM. Potential for improvement in the management of asthmatic patients referred to a tertiary hospital. *South African Respiratory Journal* 2000; 6:101. COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

Poyser M, Ehrlich R, Nelson H, Parnell S, Bateman ED. Association between asthma prevalence and socio-economic deprivation in the 1995 Cape Town ISAAC Study. *South African Respiratory Journal* 2000; 6:86. COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

Stead PA, Ainslie GM. Organising pneumonia pattern at Groote Schuur Hospital. *South African Respiratory Journal* 2000; 6: 107. COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

Venter JA, Stead PA, Raine RI. Type IV renal tubular acidosis presenting as rapidly progressive flaccid paralysis. *South African Respiratory Journal* 2000; 6:110. COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

Venter JA, Willcox PA, Roditi D. The development of quinolone resistance in *Pseudomonas aeruginosa* infections in adult patients with cystic fibrosis. *Cystic Fibrosis Congress*, Sun City, 2000.

White NW, Ehrlich RI, Abdullah I, Herman C. Asbestos related diseases among electrical power generation workers in South Africa. *South African Respiratory Journal* 2000; 6:112. COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

White NW. Respiratory Health in South Africa: results of the 1998 Demographic and Health Survey. *South African Respiratory Journal* 2000; 6:112. COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

White NW. Validation of a radiological classification of thoracic tuberculosis for use in conjunction with the ILO Radiological Classification of the Pneumoconioses. *South African Respiratory Journal* 2000; 6:113. COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

Zar HJ, Hanslo D, Apolles P, Tannenbaum E, Eley B, Klein M, Argent A, Burgess J Magnus K, Bateman ED, Hussey G. Aetiology and outcome of pneumonia in HIV-infected children admitted to hospital in South Africa. *South African Respiratory Journal* 2000; 6:114. COMCO: Combined Congress of the Critical Care Society of South Africa and the South African Pulmonology Society, Durban.

Zar HJ, Toerien A, Stickells D, Wilson D, Klein M, Bateman ED. Changes in asthma mortality and morbidity in Cape Town, South Africa from 1980 – 1997. *American Journal of Respiratory and Critical Care Medicine* 2000; 161:s. International Conference of the American Thoracic Society, Toronto, Canada.

### **THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES**

Zar HJ. Pneumonia in HIV-Infected Children Admitted to Hospital in Cape Town, South Africa. (Jointly with Department of Paediatrics). PhD thesis. University of Cape Town.

### **UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE**

Ainslie GM. Interstitial Lung Disease: current perspectives and challenges. *South African Respiratory Journal* 2000; 6: 43.

Ainslie G M. Cryptogenic Organising Pneumonia. *South African Respiratory Journal* 2000; 6: 66-71.

Ainslie G M. An approach to the diagnosis of interstitial lung disease. *Specialist Medicine* 2000; XXII: 444-450.

### **CONFERENCE ABSTRACTS**

Venter JA, Willcox PA, Roditi D. The development of quinolone resistance in *Pseudomonas aeruginosa* infections in adult patients with cystic fibrosis. *Cystic Fibrosis Congress, Sun City, 2000.*

Willcox PA. HIV and Tuberculosis. *South African Pulmonology Society Continuing Medical Education Congress, Durban, 2000.*

### **CONSULTANCY AND OTHER ACTIVITIES**

#### **Professor E. D Bateman**

Elected President of the South African Thoracic Society.

Elected Member of the Communications Committee of the American Thoracic Society

Core Member of the International Committee drafting a Consensus Document on the Classification of Interstitial Lung Disease.

Invited advisor on research to the Brewelskloof Tuberculosis Hospital.

Consultant to Partners-in-Healthcare in developing a computer programme for the diagnosis and management of asthma and chronic obstructive lung disease.

Invited speaker at meetings arranged by the Chinese Thoracic Society in Taiwan in March.

Invited speaker at Chinese Respiratory Society Congress in Nanking, China, in October .

Invited speaker at Respiratory Healthcare Decision-Makers Workshop, Rome, Italy, in November.

Invited speaker at Respiratory Physicians' Specialist Symposium Barcelona, Spain in November.

Serves on several South African Advisory Boards for new therapeutic interventions.

Invited speaker at the Annual International Congress of the American Thoracic Society in Toronto in April.

Invited speaker at symposia at the World Lung Health Congress in Florence, Italy in September.

Invited speaker at the International Influenza Consultants Meeting, arranged by the R. W. Johnson Pharmaceutical Research Institute in Paris in May.

Invited speaker at COMCO, the combined meeting of the South African Pulmonology Society and the Critical Care Society of Southern Africa held in Durban in July.

Invited speaker at the Asthma Control Workshop, Lisbon, Portugal in February and at a Satellite Symposium in San Diego, USA in March.

Visiting Professor and invited lecturer at the Firestone Institute for Respiratory Health, McMaster University, Hamilton, Ontario, Canada in May.

Serves as Director of the UCT Lung Institute. As head of the Lung Clinical Research Unit he participated in 21 sponsored clinical trials involving drugs for asthma, chronic obstructive pulmonary disease, influenza, multi-drug resistant tuberculosis, idiopathic pulmonary fibrosis and bronchitis.

Regular reviewer for 13 medical journals.

#### **Associate Professor G A Ainslie**

Elected National Chair of National Asthma Education Programme.

Elected member of Council of South African Thoracic Society.

Attended as South African representative at a meeting of the Alpha-1 Anti-Trypsin Deficiency International Registry in Florence in August.

Presented papers at the South African Pulmonology Society Congress in Durban in July, and at the World Lung Health Congress in Florence in September.

Organised and presented at the Continuing Medical Education Workshop on Interstitial Lung Disease (South African Pulmonology Society) in Durban in July.

#### **Dr. R.I. Raine**

Medical volunteer in Red Cross Mercy Air Service.

Elected member of Council of the Critical Care Society of Southern Africa.

#### **Associate Professor P A Willcox**

Invited speaker at the Brewelskloof Tuberculosis Conference, Worcester in August, at the South African Pulmonology Society Continuing Medical Education Congress in September, and at the Botswana Medical and Dental Congress in Francistown in October.

Elected a member of the Editorial Board of the Malawi Medical Journal.

Reviewer for the South African Medical Journal and the Central African Journal of Medicine.

Involved in research contracts on novel treatments in multi-drug-resistant tuberculosis and community-acquired pneumonia.

Served as external examiner for the College of Medicine, Malawi (final year medicine) and for the University of Zimbabwe (final year medicine and master of medicine candidates).

#### **Associate Professor N White**

Invited speaker at the Continuing Medical Education Workshop on Interstitial Lung Disease in Durban in July (South African Pulmonology Society).

Awarded best poster presentation at the COMCO Congress in Durban in July.

Member of the Scientific Committee for the 2000 Africa Region Congress of International Union against Tuberculosis and Lung Disease (IUAT-LD), Conacry.

Member of the Mining and Occupational Health Advisory Committee (MOHAC).

Reviewer for the Scientific Committee of the World Lung Health Congress held in Florence, Italy in September.

Collaborative researcher in mining-related projects funded by SIMRAC, in collaboration with Aurum Health Research (Pty) Ltd, the University of Natal, the National Centre for Occupational Health, Johannesburg and the Department of Public Health, UCT.

# RHEUMATIC DISEASES UNIT

**HEAD OF DEPARTMENT** - Associate Professor Asgar Ali Kalla

## CONTACT DETAILS

Postal Address: J47 Old Main Building  
Groote Schuur Hospital  
Observatory, 7925  
Cape Town  
Telephone: 404-5422 / 404-2131 / 406-6514  
Fax: 448-3253  
Email: mburger@uctgsh1.uct.ac.za

## DEPARTMENTAL PROFILE

The Rheumatic Diseases Unit has several research interests relating to different aspects of the rheumatic diseases. Corticosteroid induced osteoporosis is an area of interest for many years and we are currently collecting longitudinal bone mineral density data in patients with rheumatoid arthritis (RA) and systemic lupus erythematosus (SLE). Age-related bone loss at different skeletal sites is also being prospectively studied in collaboration with the Department of Nuclear Medicine and the Endocrine Unit. We are analysing the results of SPECT scans in SLE patients developing signs and symptoms of neuropsychiatric SLE. Clinical drug trials are being conducted to study the safety and efficacy of the newer non steroidal anti inflammatory drugs (NSAIDS), the class of COXIBS, in patients with RA and osteo arthritis (OA). Some of these include collaborative participation with the GIT Unit, where gastropathy is an outcome variable. The genetic basis for SLE is being looked at with respect to potential candidate genes.

The unit provides in- and outpatient rheumatology services for the entire Western Cape region. Training is provided on a continuous basis for medical students, allied health professionals, a senior house officer, and two registrars. Research is both clinically and laboratory based. In this regard, collaborative arrangements are in place with the Rheumatic Diseases Hospital in Bath, UK.

## PERMANENT AND LONGTERM CONTRACT STAFF

<b>Associate Professor</b>	1
Asgar Ali Kalla	
<b>Senior Lecturer</b>	1
Yusuf Ismail Patel	
<b>Lecturer</b>	1
Catherine Spargo	
<b>Research Staff</b>	2
Sr Zuleikha Patel & Miss N Moosa	
<b>Administrative &amp; Clerical Staff</b>	1
Mrs Melanie Burger	

## HONORARY STAFF

Honorary Lecturers	3
Dr EM Bhattay, Dr BD Sarembock & Dr RA Asherson	

## STUDENTS

Medical Officers (SHO)	2
Dr IS Kalla & Dr N Schreuder	

## RESEARCH FIELDS

**Prof. AA Kalla:** Osteoporosis; steroid-induced osteoporosis; disease modification of RA

**Dr YI Patel:** Apoptosis and auto-immunity, genetics of SLE.

**Dr C Spargo:** Neuropsychiatric Lupus Erythematosus

**Sr GMM Hepburn-Brown:** Methotrexate in rheumatoid arthritis



