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FACULTY OF HEALTH SCIENCES

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<td>Department of Ophthalmology</td>
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FACULTY OF HEALTH SCIENCES

Dean: Professor N Padayachee
Director of Research: Prof A Azad
Acting Director of Education: N Hartman
Directors of Schools: Prof D Power - Child and Adolescent Health
                   Prof A Miller - Deputy Child and Adolescent Health
                   A/Prof R Watson - Allied Health Sciences
                   Prof I Parker - Basic and Applied Sciences
                   Prof J Myers - Public Health

INTRODUCTION

The University of Cape Town has long been recognised as the pre-eminent centre for medical research in South Africa and on the African continent. The world’s first heart transplant and the pioneering research leading to the development of the CAT scanner are among the major medical discoveries that have helped put Cape Town firmly on the world map.

Over time, certain of the research programmes have become disparate, and teams have lacked critical mass and direction. On the other hand, disciplines such as the clinical, laboratory and public health personnel addressing issues of national and international importance have seen a significant increase in magnitude of research teams and funding. However, because of shrinking financial support from traditional sources there has been undue diversion of human resources and expertise away from basic clinical research (which remains a major strength in the Faculty) into externally driven contract research.

Primary and Public Health research has traditionally been neglected by the Faculty and thus needs to be strengthened as a major priority. Even with this relative lack of resources, the Primary/Public Health sectors of the Faculty have made significant advances in health care provision and have contributed to many of the clinical and laboratory studies. However, the current levels of funding and range of Faculty research activities remain diverse and thinly spread in many of the research areas. Basic biomedical research has suffered most because of a lack of these resources, focus, critical mass and world class facilities required to be internationally competitive.

Review of research practice within the Faculty shows that most medical research is carried out by post-graduate students, who are supervised by senior academics. However, because of the administrative, teaching and clinical loads placed on these supervisors, they are not able to dedicate enough of their time to the research teams that they co-ordinate. As a result, research productivity and the mentoring of research students and junior researchers has not been optimal. There is a serious lack of full time researchers such as post-doctoral fellows. It should be noted that it is researchers at this level of seniority who, together with graduate students are responsible for the vast majority of research productivity in the USA and Europe. This relative lack of trained full-time, medium-seniority researchers impedes our capability to be internationally competitive in these areas of research.

Research capacity, research culture and associated university operations need to keep pace with contemporary international practices. This is especially true of intellectual property development and its exploitation, through mutually beneficial partnerships with the pharmaceutical and biotechnology industries.

RESEARCH PLAN

The major thrust of the FHS research plan is the reorganisation and consolidation of its research activities into major initiatives centered on a small number of health care problems of national importance and in areas of existing strength. This is in recognition of dwindling sources of research funding, the need to concentrate on research objectives of direct relevance to the health, economic and social needs of South Africa, and to build up capacity and expertise in key areas that allow health research in the UCT to be of a worldclass standard. This requires:

(i) identification of niche areas and areas of strength;
(ii) building of multidisciplinary research teams for each major program, and project;
(iii) establishment of critical mass, appropriate expertise and state of the art facilities in each of the disciplinary areas, and;
(iv) awareness of intellectual property issues and willingness to collaborate with industry on an equal footing;
(v) that research activities promote community needs and transformation issues
(vi) strict compliance with ethical and regulatory guidelines

To bring about this change in research culture, a Research Directorate has been established within the FHS and a Research Director has been appointed.

To achieve the above objectives the Research Directorate working together with the Faculty Research Committee and the Departmental Research Committees will:

(i) Carry out an audit of all existing research activities within the FHS to identify areas of major strength where the UCT would be internationally competitive and align them to health problems of national importance;
(ii) Formulate policies to:
    • provide special support to areas of research that had previously been neglected
    • enhance research profile and productivity in priority areas that need special attention
    • ensure that research activities are in compliance with and promote transformation, ethical and regulatory guidelines
(iii) Consolidate research activities around major diseases of relevance to SA and the African continent and form multidisciplinary research teams that allows these problems to be tackled in a significant and comprehensive manner. Where this is not possible within the UCT, strategic alliances need to be established with other research groups within SA and the African continent;
(iv) Carry out an audit of available expertise and major facilities to ensure that there is critical mass and world class facilities in each disciplinary area. This will be greatly strengthened by forming strong operating links with the Faculties of Science and Engineering at the UCT and with specialist groups in neighbouring universities;
(v) Formulate appropriate policies for intellectual property development and commercialisation and highlight the importance of these in obtaining industry funds and setting up of industrial collaborations. This has to be done in close collaboration with the Department of Research Development and the Office of Industrial Liaison.

The recognition and implementation of appropriate solutions that meet our current limitations will result in a strengthening of research capacity. Much of this can be carried through the setting up of one or more multidisciplinary Institutes that would provide tangible benefits and opportunities not only to the UCT but also to the region.

The strategic directions being adopted for health sciences research at the UCT are also generally applicable to the rest of South Africa and the rest of the continent. It is therefore, desirable to develop joint strategies for mutual benefit, rather than working in isolation.

By sharing existing equipment and expertise, utilising African indigenous resources, and fully developing local intellectual property within the continent, Africans have the potential to effectively tackle the major health problems that affect the region.

The realisation of this vision is also dependent on the availability of a full range of contemporary enabling technologies within the continent. An African institution needs to be set up to not only provide state of the art equipment and facilities to African researchers, but to also work with various funding agencies to provide resources and opportunities for short-term fellowships, long-term fellowships, training workshops, and needs-based short visits to specialist centres. Besides increasing research activity this will enable African researchers working on collaborative projects to carry out world-class research primarily from their home base and thereby stem the brain drain out of their countries and out of Africa.
PROPOSED INSTITUTE OF INFECTIOUS DISEASES AND MOLECULAR MEDICINE

During the last year the UCT Strategic Committee and the UCT Council have approved the establishment of a new Institute of Infectious Diseases and Molecular Medicine that will not only allow medical research in the UCT to remain internationally competitive but would also become an African centre of excellence for contemporary enabling technologies.

The proposed Institute will bring together complementary expertise and facilities within the Faculties of Health Sciences, Science and Engineering in the UCT and specialist groups in the Universities of Western Cape and Stellenbosch to provide the capacity to carry out basic and strategic research at a level that has previously not been possible in South Africa. The Institute will foster close co-operation between basic, clinical and public health scientists for tackling health problems of national priority. This will ensure that research outcomes are directly relevant to the needs of and acceptable to the community.

The proposed Institute will concentrate on a small number of optimally supported research activities in areas of direct relevance to the health, economic and social needs of South Africa and the region. Health problems of national and regional priority will be tackled by multidisciplinary research teams with complementary expertise and facilities that would provide critical mass in each discipline and allow these problems to be tackled in a significant and comprehensive manner. The Institute will concentrate on the following Research Programs which will each consist of a small number of significant multidisciplinary projects.

1. Viral Diseases - HIV/AIDS and Hepatitis
2. Bacterial Diseases - TB and any other Bacterial Infections
3. Parasitic Diseases - Malaria and Helminthic Infections
4. Major Cancers
5. Prevalent Genetic Disorders - (including Genomic and Bioinformatics)
6. Non-communicable Diseases and Metabolic Disorders
7. Other Diseases - Immunology/Neurology Disorders etc

A major focus of the proposed Institute will be capacity building and training of African researchers. The infrastructure that will be set up will be made available to South African and African collaborators.

Towards this end it is proposed that the Institute be established as a multi-disciplinary research institution to provide resources and opportunities for long-term fellowships, training workshops and short visits. This will be possible only through partnerships with the USHEPiA Program and major funders such as the Rockefeller Foundation, and by building on the very productive current relationships with the Wellcome Trust and the MRC.

A five day research workshop is planned for February 2001 to identify individuals and projects that would qualify for membership of the proposed Institute, and also to identify research areas in infectious diseases suitable for collaboration with the USHEPiA partner universities. The Rockefeller Foundation has provided funding for a number of joint workshops on Health Equity between USHEPiA partners to enable the drafting of a small number of significant collaborative projects. The Rockefeller Foundation will arrange to have these presented to major international funders.

RESEARCH FUNDING

Research at the Health Sciences Faculty can be broadly categorised in five main areas: public health and policy; laboratory sciences; clinical science; epidemiology; and rehabilitation medicine and medical support systems. The following are the elements of research enterprise in the faculty that together constitute its research profile.

Finance: Research is financed by the income from various trusts comprehensively managed by the Faculty Research Committee (formerly MERC) which in 2000 amounted to R3,781,053.44; designated funds for cancer research (CANSa) which in 2000 amounted to R1,047,943.00 (including VAT); the Medical Research Council which in 2000 amounted R1,615,900.00; and the National Research Foundation (NRF) which in 2000 amounted to R3,765,760.00.
Summary of Research Funds for Heath Sciences Faculty in 2000

<table>
<thead>
<tr>
<th>FUNDING AGENCY</th>
<th>1999 AWDS</th>
<th>2000 AWDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Committee (MERC) Awards</td>
<td>2,936,351.49</td>
<td>3,781,053.44</td>
</tr>
<tr>
<td>Cancer Association of South Africa (Cansa)</td>
<td>974,973.00</td>
<td>1,047,943.00</td>
</tr>
<tr>
<td>Medical Research Council (MRC) - Individual Grants</td>
<td>1,159,400.00</td>
<td>1,615,900.00</td>
</tr>
<tr>
<td>* Medical Research Council (MRC) - Research Units</td>
<td>2,857,198.50</td>
<td>4,337,582.00</td>
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<tr>
<td>** National Research Foundation</td>
<td>4,125,797.00</td>
<td>3,765,760.00</td>
</tr>
<tr>
<td>** Includes Assistantship Posts</td>
<td></td>
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</tr>
<tr>
<td>** This reflects claimed amount, ie actual revenue we will receive, not awarded amounts.</td>
<td></td>
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</tr>
</tbody>
</table>

RESEARCH UNITS AND CENTRES

The research units in the Health Sciences Faculty attract a large proportion of funding, primarily but not solely from the Medical Research Council. These units also account for much of the postgraduate training in research, which plays a major role in future leadership in research at the university, and the country.

The research units and centres in the Health Sciences Faculty are listed in the Table below.

<table>
<thead>
<tr>
<th>RESEARCH UNIT</th>
<th>DIRECTORS</th>
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</thead>
<tbody>
<tr>
<td>Cardiovascular Research Unit</td>
<td>Prof Zilla</td>
</tr>
<tr>
<td>Heart Research Unit</td>
<td>Prof LH Opie</td>
</tr>
<tr>
<td>Hatter Institute for Cardiology Research</td>
<td>Dr M Sack</td>
</tr>
<tr>
<td>Lipid Unit</td>
<td>Dr D Marais</td>
</tr>
<tr>
<td>Traditional Medicines Unit</td>
<td>Prof P Folb</td>
</tr>
<tr>
<td>Liver Research Centre</td>
<td>Prof RE Kirsch</td>
</tr>
<tr>
<td>Oesophageal Cancer Research Group</td>
<td>Prof I Parker</td>
</tr>
<tr>
<td>Bioenergetics of Exercise Research Group</td>
<td>Prof T Noakes</td>
</tr>
<tr>
<td>Centre of Gerontology</td>
<td>Dr M Ferreira</td>
</tr>
<tr>
<td>Industrial Health Research Group</td>
<td>Mr N Henwood</td>
</tr>
<tr>
<td>Institute of Child Health</td>
<td>Prof DW Beatty</td>
</tr>
<tr>
<td>Occupational Health Research Group</td>
<td>Prof J Myers</td>
</tr>
</tbody>
</table>
Major sources of research funding have also come from DACST and the Wellcome Trust.

**Innovation Funds (DACST)**

The UCT Health Sciences Faculty has 3 DACST innovation awards amounting to 21 Million Rand.

Prof P Folb - Department of Pharmacology  
A/Prof A-L Williamson, Division of Medical Microbiology  
Prof K Vaughn - Department of Human Biology

**Wellcome Trust - supported Individuals and Projects**

Prof Frank Brombacher: Wellcome Senior Research Fellow.  
Prof Peter Meissner: Wellcome Senior Research Fellow.  
Prof A Katz: Wellcome Senior Research Fellow.  
Prof David Beatty: Childhood TB.  
Prof Bernard Ryffel: TB Research.  
Dr Daan Steenkamp: TB Research.  
Dr Ed Sturrock: 3D structure of ACE

**RESEARCH OUTPUT**

The Research Output of the Faculty of Health Sciences is reflected on the following Table. Changing trends over the period 1993 - 1999 are reflected in the Table.

<table>
<thead>
<tr>
<th></th>
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<tr>
<td>Proceedings</td>
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<tr>
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<td>301</td>
<td>279</td>
<td>350</td>
<td>364</td>
<td>416</td>
<td>289</td>
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<td>Other Publications</td>
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<td>TOTAL</td>
<td>767</td>
<td>816</td>
<td>861</td>
<td>880</td>
<td>888</td>
<td>917</td>
<td>922</td>
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</table>
POSTGRADUATE STUDENTS

At the heart of the research initiative of the institution lies its capacity to provide excellent opportunities, facilities and training for postgraduate students. This applies to every level of research training, from honours to doctoral studies. A breakdown for the year 2000 enrolment of postgraduate students in the faculty is provided in the following Table.

<table>
<thead>
<tr>
<th>Degree</th>
<th>Total</th>
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<tr>
<td>MEDG07</td>
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<td>3</td>
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<td>4</td>
<td>4</td>
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<tr>
<td>MEDG09</td>
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<td>6</td>
<td>2</td>
<td>28</td>
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<td>MEDM01</td>
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<tr>
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<td>-</td>
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<td>MEDM12</td>
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<td>9</td>
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<tr>
<td>MEDM95</td>
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<td>13</td>
<td>3</td>
<td>18</td>
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<tr>
<td>MEDD01</td>
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<tr>
<td>MEDD02</td>
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<td>2</td>
<td>-</td>
<td>19</td>
<td>2</td>
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<td>-</td>
<td>1</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>936</strong></td>
<td><strong>590</strong></td>
<td><strong>113</strong></td>
<td><strong>67</strong></td>
<td><strong>166</strong></td>
<td><strong>525</strong></td>
<td><strong>411</strong></td>
</tr>
</tbody>
</table>

Key: MEDG07 - Postgraduate Diploma in Occupational Health
MEDG09 - Postgraduate Diploma in Health Management
MEDH01 - BSc (Med) (Hons)
MEDM01 - Master of Medicine (Mmed)
MEDM02 - MSc Nursing
MEDM04 - MSc Physiotherapy
MEDM05 - MSc Occupational Therapy
MEDM06 - Mphil
MEDM08 - MSc Audiology
MEDM09 - MSc Speech and Language Pathology
MEDM10 - Msc in Nutrition and Diet
MEDM11 - Master of Family Medicine
MEDM12 - Master of Public Health
MEDM95 - MSc (Med)
MEDD01 - PhD
MEDD02 - Doctor of Medicine
MEDM04 - ChM

For purposes of comparison, data is provided in the following Table for Undergraduate students registered in the Faculty (total numbers only, for all programmes, are provided).

Statistics as at 15 August 2000.

<table>
<thead>
<tr>
<th>Degree</th>
<th>Total</th>
<th>White</th>
<th>Coloured</th>
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<th>Black</th>
<th>Male</th>
<th>Female</th>
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<tbody>
<tr>
<td>All U/G</td>
<td>1 531</td>
<td>722</td>
<td>228</td>
<td>197</td>
<td>384</td>
<td>470</td>
<td>1 061</td>
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</table>
DEAN's REPORT ON RESEARCH TO THE FACULTY

Research at our Faculty received a boost with the appointment of a Research Director, Professor Ahmed Azad, in January 2000. Top of his agenda during the past year has been the establishment of our new Institute of Infectious Diseases and Molecular Medicine. The University Council approved our business and funding proposal and agreed to contribute a significant portion (approximately R7million) towards the construction of the building to accommodate the Institute. UCT’s Development Office has prioritised the funding of the costs. A project manager and an architect were seconded from the central Properties & Services administration to oversee the project, and it is hoped that construction will commence in 2001.

Collaborative partnerships were established with research groups within South Africa and Southern and East Africa through the extension of the existing USHEPIA programme. Funds have been made available by the Rockefeller Foundation through the International Academic Programmes Office to enable the Faculty to drive a health sector collaboration with English language-speaking, sub-Saharan institutions. A new, externally funded Chair of Virology was established and filled; and a significant donation has been made by an external donor towards the Chair and research in the UCT/MRC Research Unit for Exercise Science & Sports Medicine. The Medical Research Council has agreed to fund a senior research scientist in the HSF.

In the interest of revitalising our research support structures and procedures to maintain international standards we are in the process of setting up a new Faculty Research Committee with representatives from the 11 new departments and the Faculty’s major Institutes. We have also established two new Ethics committees – one dealing with human and the other with animal ethics.

DEAN's REPORT TO THE FACULTY ON EQUIPMENT

The central UCT Equipment Committee allocated R595 000 towards research equipment in the Faculty of Health Sciences in 2000, R500 000 of which was used towards purchasing a mass spectrometer.

REPORT OF RESEARCH ETHICS COMMITTEES

The newly established Research Ethics Committee came into operation in 2000. This Committee is divided into two namely, the Animal and Human. The Committee is co-chaired by Profs. C Swanepoel (Human) and D. Kahn (Animal).

The committee activities have been aligned with the MRC/ICH GCP guidelines.

The in-house training of members started with the excellent course organised by Prof. Benatar. Other talks are planned to be for an ongoing education programme. The Committee meets regularly. The Human Ethics meets every last Friday of each month and the Animal ethics during the middle of the second month. The committee has received 336 protocols in 2000. 306 studies have been approved and 30 not approved. 326 are in -house research.

Professor Ahmed Azad
Director of Research, Faculty of Health Sciences
DEPARTMENT OF ANAESTHESIA

HEAD OF DEPARTMENT – Professor MFM James

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Postal Address: Department of Anaesthesia
Room 80, D23
New Groote Schuur Hospital
Main Road
Observatory
7925
South Africa
UCT Telephone: SA (21) 406-6143
GSH Telephone: SA (21) 404-5004
Fax: SA (21) 447-5206
Email: james@samiot.uct.ac.za

DEPARTMENTAL PROFILE

Despite a continuing decline in the available staff, and increased pressure of clinical work, the department has maintained research output for this year. This is due entirely to the dedication and enthusiasm of staff members who have committed their personal time to research. The gradual growth of a stable senior staffing echelon has contributed to this and the department is now developing a good cadre of research minded individuals. The department has been fortunate in being able to attract several reasonably well-funded clinical trials, and this should expand our financial base with which to support further research. The studies of haemodilution-associated increases in coagulation continue to play a major part in the research profile of the department and a collaborative project with University College Hospital, London, in this field has been established, with a fully-funded research fellow from UCH spending this year at UCT. The collaboration with Adelaide University has continued successfully and has resulted in two publications and two further studies in preparation for publication. The unique clinical material available at the Red Cross Children's Hospital has continued to attract contract clinical research, but has also provided a base for registrar research, and a further MMed thesis is in preparation arising from work conducted in this institution. Studies in thoracic anaesthesia and anaesthesia for phaeochromocytoma are continuing.

DEPARTMENTAL STATISTICS 2000

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STUDENTS

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RESEARCH FIELDS

Dyer, RA
total intravenous anaesthesia; aspects of anaesthesia in patients with severe pre-eclampsia

James, MFM (Head of Department)
the role of magnesium in the treatment of malignant arrhythmias in association with anaesthesia; control of pulmonary shunting during one-lung anaesthesia, blood transfusion and anaesthesia, haemodilution and coagulation; crystalloid v. colloid in trauma resuscitation; efficacy and safety of melagatran H376/95 compared with enoxaparin as prophylaxis against venous thromboembolism; blood coagulation in patients with chronic renal failure a thromboelastographic study

Heijke, SAM
transoesophageal echocardiography in cardiac anaesthesia

Reid, A
intravenous regional anaesthesia and the role of morphine; magnesium in the treatment of bupivacaine toxicity; the role of magnesium in anaesthesia for patients undergoing cerebral aneurysm surgery

Ruttmann, TG
Interaction of various intravenous solutions and anaesthetic techniques on coagulation; ICU care with Diprivan; the effects of intra-venous fluid management with either colloid or a crystalloid on coagulation in patients undergoing peripheral vascular surgery; remifentanil and midazolam regimen versus a morphine and midazolam regimen in Intensive Care Unit patients; the effects of increasing haemodilution on coagulation

Viljoen, JF
management of pain particularly in post-thoracotomy patients; national collaborative study on low flow and closed circuit anaesthesia

Whitehead, P
cardiotoxicity of ropivacaine versus bupivacaine

Evans, N
Studies on the intubating LMA; LMA proeseal in isolating respiratory and alimentary tracts; descriptive trial on the new LMA proeseal

Gardner, S
rocuronium for Rapid Sequence Induction [RSI]; investigation into the benefits of perioperative skin surface warming in cardiac surgical patients; gender issues in anaesthesia

H van Dyk
a phase I, single-center, open-label study evaluating the pharmacokinetics and pharmacodynamics of dexmedetomidine in paediatric patients

Roche, T
coagulation calcium concentration on citrated whole blood; coagulation effects of in vivo haemodilution with physiologically-based and non-physiologically based starch solutions; coagulation effects of acute normovolaemic haemodilution with hydroxyethyl starches

Rous, SA
the interaction between rocuronium and thiopentone

Thomas, J
epidural infusion of ropivacaine

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


UNIVERSITY PUBLICATIONS AND PUBLICATIONS OF A POPULAR NATURE


CONFERENCE ABSTRACTS

Evans, N. 2000. Haemodynamic responses to tracheal intubation using the intubating laryngeal mask. 12th World Congress of Anaesthesiologists, Montreal, Canada.
James, M.F.M. 2000. Hemodynamic management strategies. 12th World Congress of Anaesthesiologists, Montreal, Canada.
DEPARTMENT OF ANATOMICAL PATHOLOGY
(Including the Cytopathology Laboratory and UCT Mortuary)

HEAD OF DEPARTMENT: Professor JP Cruse

DIRECTOR OF RESEARCH: Professor P de la M. Hall

DEPARTMENTAL CONTACT DETAILS
Postal address: Department of Anatomical Pathology
University of Cape Town
Medical School
Anzio Road
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South Africa
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Fax: SA (21) 448-1789
e-mail: rene@chempath.uct.ac.za

DEPARTMENTAL PROFILE

The Wernher and Beit Chair of Anatomical Pathology was established in 1918, and the department shortly afterwards. The Department of Anatomical Pathology is a large University department with extensive undergraduate teaching commitments to medical and dental students, the Allied Health Sciences and various Technikons. In addition, the department has major diagnostic service commitments to the Groote Schuur Hospital region, including over 200 primary healthcare and community clinics throughout the Western Cape, for histopathological (surgical pathology), autopsy (adult and perinatal autopsies) and cytopathology services. The department also serves as a public and private tertiary referral centre for renal and liver pathology, neuropathology, immunocytochemistry, electron microscopy and molecular pathology. There is a Paediatric Pathology service, covering all disciplines of pathology, based at Red Cross Hospital. These service commitments drive most of the research programmes which are patient-and disease-orientated.

The departmental research is focused on diseases that are common in South Africa such as tuberculosis, viral infections (HIV, HPV, HBV) and various cancers, particularly those affecting disadvantaged populations groups, such as oesophageal, cervical and prostatic carcinoma.

Apart from its own active research programmes the department also collaborates closely with the departments of Medicine, Surgery, Obstetrics and Gynaecology, with other faculties within the University of Cape Town, with colleagues at the Universities of Stellenbosch, the Western Cape and with other South Africa universities. The department has international research collaborations with colleagues in Australia (the Institute of Medical and Veterinary Science, Adelaide, Flinders University of South Australia; Storr Liver Unit, Westmead Hospital, Sydney; Murdoch University, Perth; University of Western Australia); Europe (University of London, University of Leiden, Groningen University, the Netherlands; Georg-August University, Goettingen, Germany) and with institutions in the United States (Cornell University in New York, University of Arizona, Tucson, Arizona).

During 2000, the service departments of the Department were amalgamated with those of the Department of Oral Pathology & Maxillofacial Pathology & WHO Centre for Oral Cancer, University of the Western Cape. Prof Joss Hille and Emeritus Mervyn Shear therefore join the department in a long-term collaborative move, which will strengthen the combined diagnostic services as well as increasing research and teaching outputs.
DEPARTMENTAL STATISTICS 2000

PERMANENT AND LONG-TERM CONTRACT STAFF

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STAFF ON RED CROSS ESTABLISHMENT

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STAFF ON UWC ESTABLISHMENT

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HONORARY STAFF

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RESEARCH FIELDS

Professor J. P. Cruse

Head of Department, Professor Cruse is interested in the application of modern business methods to the management of Pathology laboratories (he is currently registered for the 2 year part-time Executive MBA at the Graduate School of Business, UCT); Epidemiological studies on the prevention of causation of human cancers; gastrointestinal histopathology; the histogenesis of human colonic, gastric and pancreatic cancers, the epidemiology of cancers; digital image analysis and morphometry, cancer registry.

Professor P. de la M. Hall

Hepatobiliary disease including - alcohol and drug related liver injury; hepatic neoplasms; primary and secondary iron overload; hepatic infections including hepatitis B in animal models, and schistosomiasis; non-alcoholic steatohepatitis in humans and animal models, hepatic stem cells in human liver disease and animal models for hepatocarcinogenesis; also a range of neoplasms including carcinoma of the oesophagus, colon, pancreas, prostate and cervix.

Professor J. Hille

Pathology, pathogenesis and epidemiology of head and neck pathology, and in particular salivary gland tumours; the role of myoepithelial cells in head and neck tumours.

Dr R. M. Bowen

Principal Specialist and Senior Lecturer; neuropathology of patients with chronic mental handicaps; ophthalmic and otorhinolaryngologic pathology; head of the diagnostic histopathology service.

Dr M. S. Duffield

Senior Lecturer; geographic distribution of cancer of the cervix; application of immunogold and electron microscopy to the ultrastructural diagnosis of tumours, renal biopsies and pathology of transplanted organs.

Dr G. Langman

Lecturer; the role of non-alcoholic steatohepatitis in methotrexate induced liver injury in psoriatic patients, human herpes virus 8 in inflammatory myofibroblastic tumours.
Dr B. K. Knight
Senior part-time lecturer; the prevalence and morphology of chlamydia infection in Papanicolaou smears by morphological and molecular techniques; comparison of methods for optimal collection for cervical smears

Dr D. A. Taylor
Senior Lecturer; light microscopy and immunocytochemistry of human soft tissue tumours

Dr K. Taylor
Lecturer; Special interest in lymphomas

Dr A. Timme
the pathology of malignant melanomas in the Western Cape; dermatopathology; lymphomas

Dr H. C. Wainwright
Senior Lecturer; neonatal and paediatric pathology; investigation of congenital malformation; morphological examination of human placentas; congenital heart disease; endothelial damage in pregnancy-induced hypertension; congenital syphilis; foetal alcohol syndrome in collaboration with the Foundation for Alcohol Related Research headed by Professor Denis Viljoen; also a cervical pathology project with Dr Lynn Denny

Dr J. Whittaker
Part-time lecturer; the evaluation comparison between PAPNet and AutoPAP automated cytology screening system

DISTINGUISHED VISITORS

Dr V. Anderson
Brooklyn Health Science Centre, New York

Dr A.J. Bourne
Women’s and Children’s Hospital, Adelaide, South Australia

Prof G.C. Farell
Westmead Hospital, Sydney, Australia

Prof J. Jass
University of Queensland, Australia

Dr I. Leclercq
Westmead Millennium Institute, University of Sydney, Australia

Prof D.C. Mangham
Royal, Orthopaedic Hospital, Birmingham

Dr S. Orrell
Clinpath, Adelaide, South Australia

Dr T. Schlott
Georg-August University, Goettingen, Germany

Prof A. Tiltman
University of Witwatersrand

Prof K. Unni
Mayo Clinic, Rochester, Minneapolis, USA

Dr C. Vessey
University College, London

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREEED ARTICLES


PUBLISHED CONFERENCE PROCEEDINGS


Kaschula, R.O.C. 2000. An analysis of 32 PNET/Ewing's sarcoma cases from Red Cross Children's Hospital, Cape Town, South Africa. XXIII International Congress of International Academy of Pathology, Nagoya, Japan. Pathology International 50 (suppl): FP-27-19.


ABSTRACTS PRESENTED AT SCIENTIFIC CONFERENCES


Davies, J.Q. & S-Smith, C. 2000. Interdigitating dendritic cell sarcoma - a report of three cases at Red Cross Children's Hospital. Presented at Red Cross Children’s Hospital Research day.


Duffield, M. 2000. Classification of Renal Disease. Presented at a joint International Society of Nephrology (ISN) and African Association of Nephrology (AFRAN) meeting, Aga Khan Hospital, Nairobi.

Duffield, M. 2000. Focal Segmental Glomerulosclerosis. Presented at a joint International Society of Nephrology (ISN) and African Association of Nephrology (AFRAN) meeting, Aga Khan Hospital, Nairobi.


Hall, P. de la M. 2000. Pathology and classification of autoimmune hepatitis. Presented at the 5th Meeting of the African Association for the Study of Liver Disease (AASLD), Sun City.

Hall, P. de la M. 2000. Pathology of alcoholic and non-alcoholic steatohepatitis. Presented at the 5th Meeting of the African Association for the Study of Liver Disease (AASLD), Sun City.


Kaschula, R.O.C. 2000. Osseus Ewing's Sarcomas seen at Red Cross Children's Hospital over 35 years. Federation of SA Societies of Pathology, Warmbaths, South Africa.


THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES


DEPARTMENT OF CARDIOTHORACIC SURGERY
(Cardiovascular Research Unit)

HEAD OF DEPARTMENT: Professor Ulrich O. von oppell

DEPARTMENTAL CONTACT DETAILS

Postal address: Department of Cardio-Thoracic Surgery
University of Cape Town
School of Medicine
Observatory
7925
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Fax: SA (21) 448-1145
E-Mail: uvonopp@thoracic.cts.uct.ac.za

DEPARTMENTAL PROFILE

The Department of Cardiothoracic Surgery at the University of Cape Town provides clinical and training services in cardiac and thoracic surgery at both Groote Schuur and Red Cross Children’s Hospitals. The clinical services have been further reduced by the Provincial Administration of the Western Cape because of budgetary constraints, which has impacted on our ability to train registrars in the various surgical procedures.

The progressive change in the category of heart valves implanted adults in our Department is illustrated in the following illustration. In addition, our drive towards off-pump coronary artery bypass graft surgery is depicted in the subsequent illustration.

The department hosts the Cardiovascular Research Unit situated in the SAMIOT building, Medical School.
DEPARTMENTAL STATISTICS

PERMANENT AND LONG TERM CONTRACT STAFF

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<th>UCT conditions of service 2000</th>
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<td>Professors</td>
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22 12

STUDENTS

| Doctoral                          | 5 |
| Masters                           |   |
| MMed – Cardiothoracic             | 7 |
| MSc                               | 3 |
| Honours                           | 1 |
| Diploma Clinical Technology       | 2 |
| **TOTAL**                         | 18 |

PERMANENT STAFF

Prof U.O Von Oppell

Head of Department; myocardial preservation; spinal cord protection during aortic surgery; arrhythmia surgery; mitral valve repair surgery; stentless valve surgery; off-pump coronary artery bypass graft surgery; minimally invasive approaches to cardiac surgery; surgery for atrial fibrillation

Prof P Zilla

Director Cardiovascular Research Unit; tissue engineering of cardiovascular implants

Assoc. Prof. M De Groot

Head of Thoracic Surgery; oesophageal carcinoma; lung carcinoma; surgery for tuberculosis

Dr J Brink

Head of Heart and Lung Transplantation; Cyclosporin toxicity; post heart transplantation hypertension and renal dysfunction; surgical alternatives to transplantation; homograft and autograft aortic valve replacement surgery; xenotransplantation

Dr J Hewitson

Head of Paediatric cardiothoracic surgery; paediatric empyema; surgery for tuberculosis; mitral valve repair surgery

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREEED ARTICLES


PUBLISHED CONFERENCE PROCEEDINGS


CONFERENCE ABSTRACTS

International:


Local:


EDUCATIONAL COURSES

De Groot, K.M. 2000. The solitary pulmonary nodule. Local CPD course; Southern Cross Hospital, Cape Town. [Invited].
Von Oppell, U.O. 2000. Principles of myocardial protection during cardiopulmonary bypass. Anaesthetic refresher course, Medical school, University of Cape Town. [Invited].

THESES AND DISSERTATIONS PASSED FOR HIGHER DEGRESS

CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPED IN RESEARCH
Brink, J.G. 2000. Member of Xenotransplantation advisory committee; International Society of Heart and Lung Transplantation.
Von Oppell, U.O. 2000. Editorial Board; Cardiovascular Journal of South Africa
Zilla, P. 2000. Editorial Board; Cardiovascular Pathology.
Zilla, P. 2000. Advisory Board; Advanced Tissue Sciences, San Diego, USA.
Zilla, P. 2000. Editor; Circulator.
DEPARTMENT OF CHEMICAL PATHOLOGY
(Including the Chemical Pathology sections of Groote Schuur Hospital and Red Cross War Memorial Childrens’ Hospital)

HEAD OF DEPARTMENT - Professor J.S. Davidson

DEPARTMENTAL CONTACT DETAILS
Postal address: Department of Chemical Pathology
University of Cape Town Medical School
Observatory
7925
South Africa
Telephone : SA (21) 406-6185
Fax : SA (21) 448-8150
e-mail : chempath@chempath.uct.ac.za

DEPARTMENTAL PROFILE

Associate Professor David McIntosh’s research group has developed ATP analogues as specific probes of the ATP site of the P-glycoprotein, which is responsible for drug resistance of cancer cells. These analogues will be used in the design of more potent inhibitors, with the ultimate goal of enhancing cancer chemotherapy. Professor McIntosh's reputation as a leader of his field was highlighted when he was invited to critically appraise new developments on the calcium pump in a review for News and Views, Nature Structural Biology. Associate Professor Daan Steenkamp made outstanding advances towards identifying the enzymes of novel biochemical pathways of thiol metabolism in the TB bacillus and in trypanosomes (sleeping sickness). His success was recognised by the award of a large grant from the Wellcome Trust. The holy grail of new anti-TB and anti-trypanosome drugs seems closer than ever! Professor Eric Harley's group has identified a novel method of free radical removal involving dityrosine which exists in the rhinoceros, and may be of relevance to human disease. His group has made DNA libraries from bats and sharks for population genetic studies which are vital for conservation strategies. Professor James Davidson, together with Associate Prof. Brian Rayner of the Dept. of Medicine, reported a high prevalence of primary aldosteronism and low-renin hypertension in Black patients. They also found low renin and aldosterone levels in Black normotensives, suggesting a salt-retaining tendency in this population group which may be relevant to hypertension. Dr Peter Berman perfected a method for determining carbohydrate-deficient transferrin as a marker of alcohol abuse.

DEPARTMENTAL STATISTICS 2000

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</table>
RESEARCH FIELDS

Professor J.S. Davidson
Hypertension; renin; aldosterone, Aldosterone disorders

Associate Professor D.B. McIntosh
P-type ATPase; calcium-ATPase; multidrug resistance P-glycoprotein; flavonoids; site-directed mutagenesis; photoaffinity labelling; Ion Pumps and ABC transporters: Mechanism and drug targeting of ion pumps and ABC transporters of Mycobacterium tuberculosis and mammals; Properties and drug targeting of hypoxanthine phosphoribosyl transferase from malaria and Toxoplasma gondii

Emeritus Professor M.C. Berman
Calcium metabolism in muscle; calcium-ATPase pump mechanism; coupling and uncoupling of calcium transport; Ion Pumps and ABC transporters: Mechanism and drug targeting of ion pumps and ABC transporters of Mycobacterium tuberculosis and mammals; Properties and drug targeting of hypoxanthine phosphoribosyl transferase from malaria and Toxoplasma gondii

Professor E.H. Harley
Inherited metabolic disease; homocysteinaemia; mitochondrial myopathy; red cell metabolism; population genetics; molecular evolution; molecular systematics Inherited Metabolic Disorders/Molecular Evolution. (1) Mitochondrial DNA diseases (2) Molecular genetics of inherited metabolic disorders (3) DNA analysis as a tool for molecular systematics and population genetics

Dr E.P. Owen
Homocysteine; mitochondrial DNA mutations; TPMT mutations; urea cycle disorders Inherited Metabolic Disorders/Molecular Evolution. (1) Mitochondrial DNA diseases (2) Molecular genetics of inherited metabolic disorders (3) DNA analysis as a tool for molecular systematics and population genetics

Dr D. Steenkamp
Thiol metabolism in pathogens; Biochemical Parasitology Enzymes in the metabolism of the trypanosomatids and mycobacteria as potential drug targets

Dr P. Berman
Carbohydrate-deficient transferrin as a biochemical marker of alcoholism. Biochemistry of Alcoholism

Dr J.A. King
Evolution of gonadotropin-releasing hormones and their receptors; Molecular Reproductive Endocrinology

Associate Professor L.R. Purves
Mass spectrometry; gastrointestinal function. Biochemical Diagnosis of Diseases of Sick Children (Red Cross War Memorial Childrens’ Hospital) (1) Gastrointestinal function (2) Genetics of hyperlipidaemia, tuberculosis, galactosaemia, and cystic fibrosis (3) Mass spectrometry (4) Inherited metabolic disease

Associate Professor H. Henderson
Genetics of hyperlipidaemia, galactosaemia, and cystic fibrosis; inherited metabolic disease; Biochemical Diagnosis of Diseases of Sick Children (Red Cross War Memorial Childrens’ Hospital) (1) Gastrointestinal function (2) Genetics of hyperlipidaemia, tuberculosis, galactosaemia, and cystic fibrosis (3) Mass spectrometry (4) Inherited metabolic disease

Ms F. Leisegang
Genetics of galactosaemia and cystic fibrosis; application of PCR to genetic screening; Biochemical Diagnosis of Diseases of Sick Childre (Red Cross War Memorial Childrens’ Hospital) (1) Gastrointestinal function (2) Genetics of hyperlipidaemia, tuberculosis, galactosaemia, and cystic fibrosis (3) Mass spectrometry (4) Inherited metabolic disease

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES

Berman, M.C. 2000. Characterisation of thapsigargin-releasable Ca\(^2+\) from the Ca\(^{2+}\) -ATPase of sacroplasmic reticulum at limiting [Ca\(^{2+}\)]. Biochimica et Biophysica Acta 1509: 42-54.


**CONFERENCE ABSTRACTS**


Berman, P.A. 2000. Underglycosylated transferrin as a biochemical marker of excessive alcohol exposure. UCT Pathology Research Day, University of Cape Town Medical School, Observatory, South Africa.


Davidson, J.S., Opie, I.H., Myers, J., Trinder, V.A. & Rayner, B.L. 2000. Screening for primary aldosteronism: normal ranges for aldosterone and renin in three South African population groups. UCT Pathology Research Day, University of Cape Town Medical School, Observatory, South Africa.


DEPARTMENT OF DERMATOLOGY

HEAD OF DEPARTMENT - Professor Gail Todd

DEPARTMENTAL CONTACT DETAILS
Postal address: Department of Dermatology
              Ward G23 Groote Schuur Hospital
              Observatory
              7925
              South Africa
Telephone: SA (21) 404-3376
Fax: SA (21) 47-8232
e-mail: dermatol@uctgsh1.uct.ac.za

DEPARTMENTAL PROFILE

Despite the staffing crisis at a time of significant faculty reforms, the Department of Dermatology continues to maintain a high academic profile, meeting its many teaching, services and research commitments. This is possible because of a dedicated staff and ongoing interdisciplinary research and service links with a number of other departments both nationally and internationally.

With the help of the Development Office, funding for the UCT Skin & Hair Centre at the UCT Lung Institute was raised. The Centre has facilities for managing patients with skin disease on an outpatient basis and aims to complement colleagues in private practice by offering a specialist referral service. Funds generated in the Centre are to be used to finance departmental activities. The Centre provides the space essential for clinical and applied research.

Professor Norma Saxe retired this year but remains an active honorary member of the department.
Dr Sue Jessop was appointed as a full-time senior lecturer and her experience and capable contributions to the department have been invaluable.
Dr Pat Lawrence continues to develop the paediatric dermatology service at Red Cross Hospital, the first of its kind in Southern Africa. A diploma course in this sub-speciality is planned for the future.

The Dermatology Nurse’s Diploma Course, run in collaboration with the Nursing Education Unit at Groote Schuur Hospital, continues to train nurses from all over Southern Africa. Nurses are taught basic dermatology diagnosis and management to enable them to run community based day-care centres. Functional units in South Africa operate at Wesfleur (Atlantis) and Hout Bay and are run by dermatology nurse graduates. Similar units are now established in Zimbabwe. The course has been listed by the International Federation of Anti-Leprosy Associations and several nurses from throughout Africa are to be sponsored by The Leprosy Mission International and South Africa in 2001. Rotary has adopted the concept for its Rotary Road to Skin Health campaign. Local and international funding has been raised to sponsor clinic development and the training of nurses in under-serviced areas. CPN Pat Kelly, one of the graduates is funded by departmental research money to co-ordinate the initiative. She represents South Africa and Africa on the International Skin-Care Nursing Group, a recently constituted organisation that aims to promote the provision of skin care internationally.

A collaborative project with Professor Hywel Williams, University of Nottingham, funded by a 3-year Wellcome Grant on the prevalence and cost of childhood atopic dermatitis in rural, urban and informal settlements in around Cape Town, South Africa was initiated this year. The fieldwork is to be completed early in 2001.
Dr Sue Jessop has completed a Cochrane systematic review in collaboration with the University of Stellenbosch and the Cochrane Skin Group, Nottingham on treatments for chronic discoid lupus erythematosus.
The National Occupational Skin Disease Initiative, a national collaborative project run under the auspices of the South African Society of Occupational Medicine, is co-ordinated through the Department because of its status as a centre of expertise in occupational skin diseases and contact dermatitis.
Beach clinics, voluntarily run by local dermatologists to publicise the dangers of sunlight with regard to skin cancer took place over December 1999 and January 2000 in collaboration with the Cancer Association of South Africa and Rotary. They continue to be co-ordinated by Dr Cecile Keyzer.

Local collaborative research includes a project on ethno-pharmacology investigations into traditional plants together with the Pharmacology Department, an investigation on the molecular basis of vitiligo with the Department of Anatomy and Cell Biology, projects on industry related skin disorders with the Department of Community Health, a study of skin diseases in children with chronic diarrhoea with the Department of Paediatrics and studies on aspects of lupus and scleroderma with the Rheumatic Diseases Unit.

The Department’s training programme includes teaching of undergraduate medical students, (3rd to 6th year), nurses and students in professions allied to medicine. Several foreign students have worked in the department during 2000. Postgraduate students include 3 dermatology registrars.

The department contributes to continuing professional development all year round, lecturing to various healthcare providers and participating in many refresher courses and educational initiatives.

DEPARTMENTAL STATISTICS 2000

<table>
<thead>
<tr>
<th>PERMANENT AND LONG TERM STAFF</th>
<th>STUDENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Professors</td>
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<td>(part-time, sessional)</td>
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</table>

RESEARCH FIELDS

PERMANENT STAFF

Associate Professor Gail Todd

Head of Department; Prevalence and cost of childhood atopic dermatitis in rural, urban and periurban settlements around Cape Town, South Africa, collaborative project with the University of Nottingham; Occupational dermatoses amongst seafood workers and occupational allergy associated with rock lobster and salt water bony fish processing in South Africa, collaborative projects with the Department of Community Health and University of Michigan, USA; Patch testing and atopic eczema, collaborative study Dermatology Departments in UK, Tanzania and South Africa; the molecular basis of vitiligo and its treatment (Dr Gavin Gottschalk, MRC scholarship) Department of Anatomy and Cell Biology; Study to identify indigenous plants with antiviral therapeutic potential and isolation of active ingredients; (Miss Sibongile Pefile PhD student) Department of Pharmacology

Dr Susan Jessop

Risk and benefits of oestrogen therapy in systemic lupus erythematosus, collaborative study with Departments of Obstetrics and Gynaecology and Rheumatic Diseases Units, University of Cape Town and Stellenbosch, the use of functional measures in systemic sclerosis in collaboration Department of Rheumatic Diseases; Cochrane review: Treatments for discoid lupus erythematosus in collaboration with the Departments of Dermatology and Rheumatic Diseases Unit, University of Stellenbosch and The Cochrane Skin Group, Nottingham

Dr Pat Lawrence

Skin lesions in children with chronic diarrhoea, collaborative study with Department of Paediatrics
HONORARY STAFF (LECTURERS)

Professor Norma Saxe
Dr M. Forder
Dr I. Webster
CPN Nora Christians

REGISTRARS

Dr J. Milne
  Management of vitiligo with khellin and ultraviolet radiation
Dr G. Sobey
  Inpatient treatment of chronic plaque psoriasis
Dr A. Collison

RESEARCHERS

S. Tolosana  (research assistant – full-time)
  Prevalence and cost of childhood atopic dermatitis in rural, urban and informal settlements around Cape Town, South Africa, collaborative project with the University of Nottingham (Wellcome grant)

P. Kelly  (senior sister – part-time)
  Delivery of primary and secondary dermatological care; the role of the dermatology nurse and the establishment of community dermatology day-care centres

S. Pefile  (in collaboration)
  PhD student, Department of Pharmacology; The use of traditional medicinal plants in the treatment of viral skin disorders

G. Gottschalk (MRC scholarship – in collaboration)
  MSc student, Department of Anatomy and Cell Biology; A molecular analysis of vitiligo lesional melanocytes and of the possible involvement of the Sonic Hedgehog (SHH) signalling pathway in aetiopathogenesis (MRC grant)

S. Copelyn (research assistant – part-time)
  Cancer and vitiligo (MRC grant)

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREEED ARTICLES


CONGRESS ABSTRACTS


UNIVERSITY PUBLICATIONS AND PUBLICATIONS OF A POPULAR NATURE


Todd, G. 2000. Itching and scratching. Continuing Medical Education 18: 478. (Guest editor and Editorial)


CONSULTANCY AND OTHER ACTIVITIES

Members of the department act as consultants and serve on many committees at local, national and international level in addition to their routine commitments. This ensures that our dermatology service continues to function at a high standard and that dermatology, as a speciality, is not marginalised during health reforms.

We intend expanding the clinical drug trials with which we have been actively involved to generate funds necessary for dermatology teaching, research and services to be sustained and developed in the future.

In order to increase skin care at a primary care level we are planning to introduce diplomas in dermatology and paediatric dermatology in 2001. This will be a first in Southern Africa and will be available to the region as a whole, as is our Dermatology Nurse Diploma Course.
DEPARTMENT OF FORENSIC MEDICINE AND TOXICOLOGY

HEAD OF DEPARTMENT - Professor G. J. Knobel

DEPARTMENTAL CONTACT DETAILS

Postal Address:  Department Forensic Medicine & Toxicology
Faculty of Health Sciences
Anzio Road
Observatory
7925

Telephone:   SA (21) 406-6412
Fax:    SA (21) 448-1249
E-Mail:    knobel@curie.uct.ac.za

DEPARTMENTAL PROFILE

A range of activities related to the role of Forensic Medicine in public policy and health promotion are being pursued. The provision of a sustainable database on violence and injury in the Cape Town Metropole is being implemented as an urgent research priority.

DEPARTMENTAL STATISTICS 2000

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<th>PERMANENT STAFF</th>
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<td>Chief Specialist/Professor 1</td>
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RESEARCH FIELDS

Professor G. J. Knobel

Head of Department; Cape Town injury mortality database: an ongoing departmental project with the Cape Town Metropolitan Non-natural Mortality Study Group and the Health Consulting Office, Health Technology Research Group, Medical Research Council, aimed at reporting the epidemiology of all non-natural mortality in the Cape Town area as a basis for a local injury control policy; S. A. Community Epidemiology Network on Drug Use: alcohol and unnatural deaths; epidemiology of homicidal firearm injuries for the period 1994 to 2000; epidemiology of violent and unnatural deaths in the greater Cape Town area; Statutory, legal and ethical issues in HIV/AIDS; deaths related to recreational drugs; hazards of intravenous fluid administration to Neonates: Intravenous Fluid Investigative Task Team, Dept. Pharmacology, Groote Schuur Hospital

Dr D. Lourens

Specialist; survival rate in pericardial injuries - in conjunction with the Trauma Unit of Groote Schuur Hospital; death in custody, sexual asphyxia’s
Dr L.J. Martin
Specialist; Medical Research Council - Crime Violence and Injury Lead Programme; sustainable solutions for women and children with HIV/AIDS; South African Gender-Based Violence and Health Initiative; National study of the epidemiology of female murder; International Initiative on Sexual Violence; National rape training task team; Rape Prevention Strategy Project

Dr L. Liebenberg
Registrar; the survival rate in pericardial injuries; in conjunction with the Trauma Unit of Groote Schuur Hospital; Firearm fatalities and final judicial outcome

RESEARCH OUTPUTS

CONFERENCE ABSTRACTS


UNPUBLISHED RESEARCH/TECHNICAL/POLICY DOCUMENTS


CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPED IN RESEARCH

Regularly consulted regarding medico-legal matters including: causes of death, inquest dockets, alcohol-related trauma and death, deaths due to poisoning, iatrogenic causes of death, expert evidence in courts and acting as assessors in court proceedings.
DEPARTMENT OF HAEMATOLOGY

HEAD OF DEPARTMENT: Professor N. Novitzky

DEPARTMENTAL CONTACT DETAILS

Postal Address: Department of Haematology
Faculty of Health Sciences
Anzio Road
Observatory
7925

Telephone: SA (21) 406-6154
Fax: SA (21) 448-8607
Email: novitzky@samit.uct.ac.za

DEPARTMENTAL PROFILE

The Department of Haematology at Groote Schuur Hospital is a multidisciplinary unit with a broad range of activities that include outpatient clinics, a UCT Leukemia Unit, a stem cell transplantation programme, a routine service laboratory as well as tertiary diagnostic and specialised laboratories. Here, of particular importance are developments in the areas of immunophenotyping and cytogenetics. A state of the art automated karyotyping system has recently been acquired and new technologies such as fluorescence in situ hybridisation (FISH) are being explored to improve the turnaround times. Patients with elaborate diagnostic problems, haematological malignancies or requiring stem cell transplantation are referred from all provinces; predominantly the Northern and Eastern Cape and occasionally referrals from other regional institutions are also treated. Peer review systems are constantly applied, both informally during ward rounds, and through formal “Morbidity-Mortality” presentations or by reporting the outcome of patients at local or international conferences and to international registries.

Together with the Department of Radiation Oncology, patients with multiple myeloma and other lymphoproliferative disorders are treated in combined clinics. The direct application of bone marrow/hematopoietic stem cell transplantation to properly selected patients has led to a considerable improvement in the prognosis of patients with these disorders.

The apheresis section provides a service to the hospital and is central to the bone marrow/stem cell transplantation programme. Studies continue on the efficacy of plasma exchange in the emergency treatment of respiratory failure due to myasthenia gravis and the Guillain-Barré syndrome. In the hyperlipidaemias these procedures efficiently remove cholesterol and improve survival. Mobilisation of hematopoietic progenitors with growth factors is now established and attempts are being made to determine whether these manipulations lead to the release of cells, which are functionally different from their normal marrow counterparts.

Among the other multiple clinical activities, a busy Haemophilia Centre provides total care to patients with congenital bleeding disorders. This permits the appropriate and unified therapy of these genetic disorders, which start at birth, at Red Cross War Memorial Children’s Hospital, a tertiary institution also under the umbrella of UCT. Part of the routine work includes the running of an anticoagulant clinic under direct supervision of one of the consultants, by the Haematology registrars.
DEPARTMENTAL STATISTICS

PERMANENT AND LONG TERM CONTRACT STAFF

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STUDENTS

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RESEARCH FIELDS

Professor N. Novitzky
Haematopoietic stem cell biology; clonogenic assays; Haematopoietic stem cell transplantation; Immune Reconstitution; Haematological malignancies

Dr. R. Charlewood
Haematopoietic stem cell biology

Dr. C. du Toit
Haematopoietic stem cell transplantation; Haematological malignancies; Haemophilia

Dr. J. Finlayson
Molecular Biology of neoplasia: chronic myelogenous leukaemia; Coagulation abnormalities

Dr. E. Holland
Haematopoietic stem cell transplantation; Multiple Myeloma

Dr. R. Rubinstein
Molecular pathology of neoplasia; Thrombophilia

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


**CONGRESS PRESENTATIONS**


Novitzky, N., Mohamed, R., du Toit, C. & Finlayson, J. 2000. In Myelodysplastic Syndromes (MDS) Excessive Apoptosis (APO) in the Bone Marrow (BM) is associated to poor proliferation of CD34+ Cells that may be overcome by addition of Cytokines. SASMO/SASRO Congress.

Novitzky, N., Mohamed, R., du Toit, C. & Finlayson, J. 2000. In Myelodysplastic Syndromes (MDS) Excessive Apoptosis (APO) in the Bone Marrow (BM) is associated to poor proliferation of CD34+ Cells that may be overcome by addition Of Cytokines. ESPHI Working Group's Meeting.


**THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES**


DEPARTMENT OF HUMAN BIOLOGY

HEAD OF DEPARTMENT - Professor Christopher L Vaughan

DEPARTMENTAL CONTACT DETAILS
Postal address: Department of Human Biology
              Health Sciences Faculty
              Observatory
              7925
              South Africa
Telephone: SA (21) 406-6238
Fax: SA (21) 448-3291
e-mail: kvaughan@cormack.uct.ac.za
web-page: http://www.uct.ac.za/depts/

DEPARTMENTAL PROFILE
The year 2000 brought about major changes, not least of which was the merger of three departments to form the new Department of Human Biology. The old departments were: Anatomy and Cell Biology, Biomedical Engineering, and Physiology. We anticipate that the new department will benefit from the merger in terms of scientific collaboration, increased efficiency and improved utilisation of resources. The areas of research activity include: cell and developmental biology; anthropology; medical education; mineral metabolism; electrophysiology; neuroscience; post mortem changes; sports science; and biomedical engineering. The department of Human Biology houses two separate MRC/UCT Research Units.

The MRC/UCT Research Unit for Exercise Science and Sports Medicine was formalised in 1989 and is under the directorship of Professor Tim Noakes. The focus is on postgraduate education, in particular sports medicine, sports physiotherapy and the exercise sciences. The Unit forms the core of the medical, scientific and outreach programmes of the Sports Science Institute of South Africa in Newlands in which building the teaching and research laboratories of the Unit are housed. Its large postgraduate enterprise leads to degrees in exercise science, biokinetics and sports medicine.

The MRC/UCT Medical Imaging Research Unit was launched in May 2000 and is under the directorship of Professor Kit Vaughan. The focus is on the application of imaging technologies to address medical problems that are specific to South Africa, including trauma, cancer, tuberculosis, and foetal alcohol syndrome. Drawing together academics and postgraduate students from the Faculties of Science, Engineering and Health Sciences, the Unit is working on low dose digital X-rays, telemedicine, high-resolution electroencephalography, and surgical navigation technologies. The Unit will form the core of the Allan Cormack Institute for Medical Imaging, to be housed in the Anatomy Building, which will honour the UCT alumnus who earned a Nobel Prize in Medicine for his pioneering research in developing the computer tomographic (CT) scanner.

DEPARTMENTAL STATISTICS 2000
PERMANENT AND LONG TERM CONTRACT STAFF

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<th>UNIVERSITY STAFF</th>
<th>JMS STAFF</th>
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RESEARCH FIELDS

PERMANENT STAFF

Professor Christopher L Vaughan
  Hyman Goldberg Professor and Department Head, Director of UCT/MRC Medical Imaging Research Unit, musculoskeletal biomechanics, theories of human gait, medical imaging

Professor Tim Noakes
  Discovery Health Chair of Exercise and Sports Science and Director of UCT/MRC Research Unit for Exercise Science and Sports Medicine (RUESSM) - A neural governor that prevents the development of myocardial ischaemia during maximal exercise; the hyponatraemia of exercise; mechanisms whereby carbohydrate depletion causes exercise fatigue

Professor W.J. Els
  Molecular membrane biology; regulation of membrane ion channels

Associate Professor Steve Dennis
  Biochemistry of exercise

Associate Professor Wayne Derman
  RUESSM - Skeletal muscle dysfunction in chronic disease; exercise training in chronic disease

Associate Professor S.H. Kidson
  Developmental biology; melanocytes; eye development and glaucoma

Associate Professor Mike Lambert
  RUESSM – Muscle damage; regeneration, overload, heart rate, anabolic steroids, human performance, ergogenic aids

Associate Professor Vicki Lambert
  RUESSM - Fat metabolism during exercise; effect of ante-natal nutrition on subsequent health; predictors of health

Associate Professor G.J. Louw
  Human growth; medical curricula; skeletal analysis

Associate Professor A.G. Morris
  Physical anthropology

Associate Professor Vivienne Russell
  Attention deficit hyperactivity disorder

Associate Professor Martin Schwellnus
  RUESSM - Epidemiology of sports injuries; biomechanical factors associated with sporting injuries

Dr David A Boonzaier
  Senior Lecturer; rehabilitation technology

Dr Andrew Bosch
  RUESSM – Muscle glycogen; fatigue; training; performance

Dr Wayne L Capper
  Lecturer; physiological flow

Dr Malcolm Collins
  RUESSM - Genetic contributions to sporting excellence; molecular mechanisms in training adaptations and in exercise-induced fatigue

Dr M.-A. Davies
  (joined the department in 2000) - Lecturer; bioarchaeology

Dr L.-M. Holtzhausen
  (left the department in 2000) - Senior Lecturer; sports medicine; bioarchaeology

Dr Laurie Kellaway
  In vivo and in vitro visual cortical mechanisms

STUDENTS

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<th>Degree</th>
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HONORARY STAFF

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</table>
Dr D.M. Lang
(joined the department in 2000) - Lecturer; nervous system development; axon growth and regeneration

Dr David Querido
Physico-chemical estimation of postmortem interval

Dr C.P. Slater
Senior Lecturer; interactive multimedia for anatomy teaching

Dr Alan St Clair Gibson
RUESSM - Neural mechanisms in fatigue; neural mechanisms in locomotion

Dr C.M.R. Warton
Senior Lecturer; medical education and teaching materials

Ms D. Constant
Senior Lecturer; bioarchaeology; skeletal analysis

Mr Mladen A Poluta
Senior Lecturer; Director, Healthcare Technology Management

Mrs L. van der Merwe
(joined the department in 2000) - Lecturer; cell biology; imaging techniques

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


**CHAPTERS IN BOOKS**


PUBLISHED CONFERENCE PROCEEDINGS


PUBLISHED ABSTRACTS


Vaughan, C.L. 2000. Allan MacLeod Cormack: a Capetonian whose work led to the development of the CT scanner and the award of the Nobel Prize for Medicine. 10th Biennial Congress of the South African Lymphoma Study Group, Cape Town, South Africa.

THESSES AND DISSERTATIONS PASSED FOR HIGHER DEGREES


UNIVERSITY PUBLICATIONS AND PUBLICATIONS OF A POPULAR NATURE


DEPARTMENT OF HUMAN GENETICS

HEAD OF DEPARTMENT – Prof RS Ramesar (Acting Head)

DEPARTMENTAL CONTACT DETAILS
Postal address: Department of Human Genetics
University of Cape Town Medical School
Observatory
7925
South Africa
Telephone: SA (21) 406-6297
Fax: SA (21) 447-7703
e-mail: humgen@cormack.uct.ac.za
Webpage: http://www.uct.ac.za/depts/genetics/

DEPARTMENTAL PROFILE
The Department of Human Genetics is committed to providing a world-class clinical service which is underpinned by a strong research programme and laboratory services. A significant proportion of basic research projects are aimed at elucidating the underlying genetic basis of disease, which upon fruition, lead to the provision of services for the diseases under investigation. The interaction between researchers and clinicians is strengthened by the fact that the senior laboratory staff are accredited by the HPCSA as genetic counsellors, and that they are directly involved in the departmental clinical services. Research in the Department has attracted considerable international and local funding. The largest research endeavour currently involves the genetics of retinal degenerative disorders (RDDs). A research highlight in 2000 was the establishment of a Colorectal Cancer Research Consortium involving pathologists, surgeons and geneticists (from UCT and the University of Stellenbosch Medical School) under the directorship of Professor Ramesar. Results emerging from this dynamic research group have already lead to the establishment of predictive testing protocols for some forms of colorectal cancers. Other major departmental research initiatives include the investigation of the genetic basis of retinal degenerative disorders, neurodegenerative disorders, psychiatric disorders (bipolar disorder and depression), muscular dystrophies and connective tissue disorders. A positive new development for the Department has been the awarding of an MRC/UCT Research Unit for Human Genetics which is to be activated in 2001.

DEPARTMENTAL STATISTICS 2000

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<th>UCT STAFF</th>
<th>UCT/GSH PERSONNEL</th>
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RESEARCH FIELDS

Professor Raj Ramesar
   Head of Department (Acting); cancer of the colon; genetics of psychiatric disorders; retinal degenerative disorders

Dr Donald Basel
   Registrar; spina bifida; dysmorphology

Associate Professor Jacque Greenberg
   Retinal degenerative disorders; genetics of neurological disorders; neuromuscular disorders

Dr George Rebello
   Post-doctoral fellow; bioinformatics; retinal degenerative disorders

Ronald Smart
   Deletion 22q syndrome

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CHAPTERS IN BOOKS


CONFERENCE ABSTRACTS


Ramesar, R.S., Pietersen, E., Koen, M., Cupido, D. & Kibel, D. 2000. Suicide in families with Bipolar Disorder. Fourth Southern African Conference on Suicidology, Durban. (Oral presentation)

THesen AND DISSERTATIONS PASSED FOR HIGHER DEGREES


DEPARTMENT OF IMMUNOLOGY
(incorporating MRC/UCT infectious Immunology unit, Allergology and Tissue Immunology units)

HEAD OF DEPARTMENT: Professor Bernhard Ryffel

DEPARTMENT CONTACT DETAILS

Postal Address: Department of Immunology
H53, H Floor, Room 22
Old Main Building
Groote Schuur Hospital
Observatory
7925
Cape Town
South Africa
Telephone: SA (21) 406-6616/6147
Fax: SA (21) 448-6116
e-mail: abdullat@uctgsh1.uct.ac.za

DEPARTMENTAL PROFILE

This department comprises four divisions:

- Immunology, Head: Professor Bernhard Ryffel
- Infectious Immunology, Head: Assoc. Professor Frank Brombacher
  These two divisions form an MRC Unit.
- Allergology, Head: Assoc. Professor Paul Potter
- Transplantation Immunology, Head: Assoc. Professor Ernette du Toit

All divisions are involved in providing clinical services and developing new laboratory diagnostic tools based on clinical and experimental research. Allergology also provides a very active clinic. All sections are extensively involved in local, national and international collaboration. The department provides transgenic animals and a specific pathogen free (SPF) facility for research collaboration at a national level.

DEPARTMENTAL STATISTICS 2000

<table>
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<tr>
<th>PERMANENT AND LONG TERM CONTRACT STAFF</th>
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RESEARCH FIELDS

B Ryffel
TB; HIV; Vaccine

A Lopata
Identification specific allergens; Anasikis pegreffii

G Hanekom
Cutaneous melanoma

P Burger
Fibroblast growth factor; prostatic stem cells ID
E.L. Wilson  
Balance VEGF/angiopoietin expression

F. Brombacher  
IL-4, IL-13 in innate and adaptive immunity

E. du Toit  
Transplantation, population genetics, HLA

RESEARCH ASSOCIATES

Dr. Christoph Hoelscher  
Generation and analysis of cell-specific IL-4 receptor – alpha gene-deficient mice

DISTINGUISHED VISITORS

Dr. Horst Mossmann  
Max Planck Institute, Freiburg, Germany

Dr. Chantal de Chastellier  
Pathogen Interaction Laboratory Necker, Paris

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED JOURNAL ARTICLES


Satoskar, A.A. 2000. Interleukin-4-independent production of Th2 cytokines by nasal lymphocytes and nasal eosinophilia in murine allergic rhinitis. Allergy 55:723-731. (I.F.= 0.9).
DEPARTMENT OF LOGOPAEDICS

HEAD OF DEPARTMENT – Professor Seppo Kalervo Tuomi

DEPARTMENTAL CONTACT DETAILS
Postal Address: Department of Logopaedics
University of Cape Town
E 47 Old Main Building
Groote Schuur Hospital
Observatory
7925
South Africa
Telephone: SA (21) 406-6313
Fax: SA (21) 406-6645
Email: stuomi@uctgsh1.uct.ac.za

DEPARTMENTAL PROFILE

Our principal functions are teaching, research and clinical training in communication disorders. Several specialised clinics are in existence. A voice clinic, which includes use of stroboscopy, is run in collaboration with the Otolaryngology Department, and offers opportunities for training and research using highly specialised equipment. A video-fluoroscopy clinic, for assessment of swallowing disorders, is run in co-operation with the Department of Radiology. A voice restoration clinic for post-laryngectomy patients is a department strength. A centre for aural rehabilitation for deaf children, initiated and established by the Department, is now recognised by the Education Department and provides rehabilitation for deaf children at primary, secondary and tertiary health care levels. A Hearing and Research Centre (HARK) mobile clinic has been instituted in association with the British Commonwealth Society and provides primary audiological services to peri-urban and rural communities in Western Cape districts. Our focus is community-based teaching. Off-site clinics rendering child, adult and geriatric services are successfully run by supervised fourth year students. Applied research in line with national research priorities is being undertaken. Research activities include the study of inter-cultural communication, the development of culturally appropriate assessment and therapeutic tools, deaf studies and epidemiological studies. Community involvement has extended to advocacy and post-creation within the educational, health and private sectors. The Department is an important centre for postgraduate education in Speech-Language Pathology and Audiology.

DEPARTMENTAL STATISTICS 2000

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<th>PERMANENT STAFF AND LONG TERM CONTRACT STAFF</th>
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RESEARCH FIELDS

Professor Seppo Tuomi

Early Xhosa phonological development; verbal and non-verbal aspects of intercultural communication; assessment of effectiveness and problems of intercultural communication in South African businesses; prevention and treatment of voicedisorders
Dr Dale Ogilvy
- Early sign language development; hearing parents – deaf children interaction; community-based audiology; interpreting issues; child speech and language disorders; including semantic pragmatic disorder

Dr Shajila Singh
- Dysphagia; adult neurology; speechmotor disorders

Dr Jacob Semela
- Brain-stem auditory evoked potentials, auditory reception of telephone transmitted high frequency phonemes in African languages, influence of cultural factors on communication disorders, traditional healers and speech-language and hearing disorders

Ms Meryl Glaser
- Telecommunications for Deaf and deafened people; the linguistic structure of the signed languages; training of sign language elicitors and training in linguistic data encoding techniques; deaf adult literacy

Ms Pharyn Sorour
- Fetal Alcohol Syndrome; developmental language disorders

Ms Carol Legg
- Neurogenic language disorders; cultural speech language pathology

Ms Heather Graz
- Early intervention; paediatric neurology; central auditory processing

Ms Lucretia Petersen
- Ototoxicity in medication for TB; Hearing aids

Clinical Staff
Ms Ros Lentin
- Cleft palate; laryngectomy; voice

Ms Ingrid von Bentheim
- Narrative discourse in persons with aphasia; acute stroke rehabilitation; dysphagia

Ms Mandy Fisch
- Interpreting issues in audiological rehabilitation; test instrumentation

Ms Shameemah Hassiem
- Child language disorders; stuttering

Ms Faieza Sayed
- Stuttering; laryngectomy

Ms Heather Wilkinson
- Child language disorders; culturally appropriate testing

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CHAPERS IN BOOKS


PUBLISHED CONFERENCE PROCEEDINGS


CONFERENCE ABSTRACTS


Glaser, M. 2000. Deaf Adults who want to read and write. Oral presentation to the International Conference on Deaf Education (ICED), Sydney, Australia.


THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES


CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPED IN RESEARCH


Ogilvy, D. 2000. Western Cape Education Department, ELSEN, Policy and Admission Criteria.
DEPARTMENTAL PROFILE

The Department of Medical Biochemistry is a preclinical, basic science department in the UCT Faculty of Health Sciences. Our principal functions are teaching and research. Undergraduate teaching is in medical biochemistry to first-year MBChB students and in physiology and medical biochemistry (jointly with the Department of Physiology) to second-year MBChB students. Postgraduate teaching includes a vigorous Honours course (jointly with the Department of Chemical Pathology) and MSc and PhD programmes. Our research activities fall into 4 major areas: (1) Regulation of collagen gene expression; (2) proteolytic processing of membrane proteins; (3) cellular and molecular biology of breast and oesophageal cancer; (4) endocytic processing with particular emphasis on mechanisms for intracellular survival of mycobacteria; (5) molecular reproductive endocrinology. In addition, the affiliated Ribotech Unit is developing the use of double-stranded RNA as interferon-inducing antiviral agents. The Department also houses the Oesophageal Cancer Research Group funded by the MRC and the Cancer Association of S.A. The Group includes researchers from UCT, UNITRA, Stellenbosch, Pretoria, UWC and the Free State, with Professor Parker as the Director. Professor Parker has also been awarded a U.N.E.S.C.O. Molecular and Cell Biology Network laboratory which allows access of UNESCO funds for training of scientists from developing countries. Professor Thilo has ongoing collaborations on mycobacterial research with groups in France and Germany. Dr Arieh Katz and his group joined the Department in January 1999. He still has a very active collaboration with Professor Millar who is currently Director of the MRC Reproductive Biology Unit in the United Kingdom.

DEPARTMENTAL STATISTICS 2000

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STUDENTS

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RESEARCH FIELDS

PERMANENT STAFF

Professor M Iqbal Parker
Acting Head of Department and Chair of Cancer Research; Research interests include cellular and molecular biology breast and oesophageal cancer; collagen gene regulation

A/Professor Lutz Thilo
Research interests: Endocytic and membrane trafficking; mycobacterial phagosomes

Dr Cynthia Sikakana
Senior Lecturer; research interests: drug and xenobiotic metabolism

HONORARY STAFF

Professor R.P. Millar
Honorary Professor – Director of MRC Reproductive Biology Unit, Edinburg, UK and collaborates with Dr Arieh Katz

Dr A Katz
Wellcome Senior Fellow, Honorary Senior Lecturer; Molecular Reproductive Endocrinology

Dr Edward Sturrock
Honorary Senior Lecturer; Structure/function studies on angiotensin-converting enzymes

SCIENTIFIC OFFICERS

Dr Tommy Haylett
Research Officer; endocytic processing

Sylva Schwager
Senior Scientific Officer; proteolytic processing of membrane proteins

Erin Dietzsch
Scientific Officer; mutations in oesophageal cancer

POST-DOCTORAL FELLOWS

Dr Robea Ballo
Identification of genes involved in susceptibility to oesophageal cancer

Dr B Troskie
Cloning of the GnRH receptor

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


THESES PASSED FOR HIGHER DEGREES


INTERNATIONAL CONFERENCES ATTENDED


Parker, M.I. 2000. Gave oral presentations at the following congresses:
- Sixteenth South African Society of Biochemistry and Molecular Biology (SASBMB) Grahamstown.
- Third Federation of African Societies of Biochemistry and Molecular Biology (FASBMB), Cairo, Egypt.
- Eighteenth International Union of Biochemistry and Molecular Biology (IUBMB), Birmingham, UK – attended the IUBMB Executive Committee meeting.
DEPARTMENT OF MEDICAL MICROBIOLOGY

HEAD OF DEPARTMENT – Professor Lafras M Steyn

DEPARTMENTAL CONTACT DETAILS

Postal address:  Department of Medical Microbiology
                University of Cape Town, Medical School
                Anzio Road
                Observatory
                7925
                South Africa
Telephone: SA (21) 406-6363
Fax: SA (21) 448-8153
e-mail:  emailbox@curie.uct.ac.za
Website:  http://www.uct.a c.za/depts/mmi/index.html

DEPARTMENTAL PROFILE

The department consists of Microbiology and Virology sections. Members of each section provide
diagnostic services, undergraduate and postgraduate medical student training, conduct research and
provide training for science students interested in a research career.

The composition of the Department is complex with staff drawn from the University of Cape Town,
Groote Schuur Hospital, Red Cross Children’s Hospital and the South African Institute of Medical
Research. The microbiology diagnostic laboratories are located at the two hospitals, while the virology
diagnostic laboratories are located on the Medical School Campus in the Wernher & Beit Building
(North). This is also the site of the molecular research laboratories.

Aside from providing a full range of diagnostic services, the department is involved in clinical and
diagnostic trials, investigating outbreaks of infection, and in defining the epidemiology of various
infectious agents. Important areas of research focus on the Human Immunodeficiency Virus,
tuberculosis, hepatitis virus, bacterial antibiotic resistance, human papilloma viruses, and nosocomial
pathogens. A major effort is directed into developing novel vaccines and vaccine vectors. The
department also has a frequently accessed site on the World Wide Web.

DEPARTMENTAL STATISTICS 2000

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RESEARCH FIELDS

PERMANENT STAFF

Professor Lafras M Steyn  
Molecular biology of mycobacterium tuberculosis  
Professor Girish Kotwal  
Immunevasion by microorganisms  
Assoc. Prof. Albert Lastovica  
Campylobacter and Helicobacter  
Assoc. Prof. Anna-Lise Williamson  
Human Papillomaviruses, HIV-1 vaccine development  
Dr Gay Elisha  
Antibiotic resistance mechanisms & molecular epidemiology  
Dr Di Hardie  
Molecular biology of Hepatitis B Virus - management of diagnostics viral lab  
Dr Anthony Keen  
Management of diagnostic virology laboratories; HIV epidemiology  
Dr Steve Oliver  
Infection control policies and antibiotic usage  
Dr Denise Roditi  
Clinical antibiotic usage and infection control; Clinical trials  
Dr Linda Stannard  
Electron microscopy of viruses  
Dr Jane Yeats  
Management of diagnostic virology laboratories; Parvovirus B19

REGISTRARS JOINT APPOINTMENTS

Dr Lydia Altini  
Opportunity infectious in HIV/AIDS  
Dr Sabina Ernsting  
Paediatric microbiology  
Dr Tim Tucker  
Hepatitis viruses  
Dr Andrew Whitelaw  
Molecular diagnostics

HONORARY STAFF

Dr Heinrich Hoppe  
Protozoan parasites  
Dr W Katz  
Vaccine production  
Dr D Mehtar  
Infection control  
Dr Mike Renan  
Oncogenesis  
Dr Johnny Sachs  
Vaccine development  
Dr J Simpson  
Clinical microbiology  
Dr H Smuts  
Hepatitis C  
Dr C Williamson  
HIV molecular biology

CONTRACT RESEARCH STAFF

Dr Linda-Gail Bekker  
Immunopathogenesis of tuberculosis  
Dr Ros Chapman  
Mycobacterial stress responses
Dr Di Marais
Human papillomavirus immunology
Dr Jenny Ramesar
Human papillomavirus typing
Mr Bruce Allan
Diagnosis of human papillomavirus
Mrs Kate Aspden
Development of recombinant poxy virus-rabies virus vaccine
Mr Jandre Grobler
HIV
Mrs Patty Kay
Human papillomavirus vaccine project
Mr Shayne Loubser
HIV
Mr Lucky Malaza
HIV
Mr Peter Owira
HIV
Ms Nicole Pahl
Human Papillomavirus
Mr Fritz Tiedt
Election microscopy of recurring recombinant proteins

DISTINGUISHED VISITORS

Gilbert Carnathan
International Aids Vaccine Initiative
Wayne Koff
International Aids Vaccine Initiative
Dr W Prozesky
SAAVI – MRC Cape Town
Gerard T Sanders
Academic Medical Centre – University of Amsterdam
Prof. S.A. Tswana
Department of Medical Microbiology – University of Zimbabwe, Harare
Prof. N.A.M. Urbanus
Academic Medical Centre – University of Amsterdam
Jan C van den Boer
Roche Diagnostics – Netherlands

POST–DOCTORAL FELLOWS

Dr William Bourn
HIV
Dr Ros Chapman
Mycobacterial stress responses
Dr Vandana Govan
HPV
Dr Jo-Ann Passmore
HPV
Dr Karen Shires
Coldshock in mycobacteria
Dr Joanne van Harmelen
HIV

RESEARCH OUTPUTS

RESEARCH PAPERS


RESEARCH LETTER


Williamson, A.L. 2000. Human papillomavirus-specific immunity induced following immunization with recombinant mycobacterium bovis bacille calmette-guérin (BCG) expressing HPV-16 L1 protein. 18th International Papillomavirus Conference & HPV Clinical Workshop jointly with the 12th Meeting of the AEPCC, Barcelona, Spain.


Williamson, C. 2000. Plenary debate – Vaccines for testing in developing countries should always be matched to the dominant local HIV strain/subtype (Db03). International AIDS Conference, Durban.


BOOK CHAPTERS


THESES PASSED FOR HIGHER DEGREES


OTHER ACTIVITIES

Steyn, L.M. 2000. External examiner for the MBBS pathology course, University of the West Indies (Camp Hill Campus, Barbados and Mona Campus, Jamaica).
DEPARTMENT OF MEDICAL PHYSICS

HEAD OF DEPARTMENT: Dr ER Hering

DEPARTMENTAL CONTACT DETAILS
Postal Address: LC 32, Department of Medical Physics
Groote Schuur Hospital
Observatory
South Africa
Telephone: SA (21) 404-6266
Facsimile: SA (21) 404-6269
Email: Margot@curie.uct.ac.za

DEPARTMENTAL PROFILE
The department of Medical Physics is responsible to the Departments of Diagnostic Radiology, Nuclear Medicine and Radiation Oncology for the safe use of ionization radiation, patient dosimetry and treatment, and the optimum use and functioning of equipment. This also includes the training of staff in their departments.

The department is recognised by the HPCSA as a training centre for Medical Physicists. The department has an active postgraduate teaching/research programme.

DEPARTMENTAL STATISTICS

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STUDENTS

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RESEARCH FIELDS

PERMANENT STAFF

Dr ER Hering
Head of Department; low dose radiation dosimetry

JK Hough
Assessment of and Improvements to a Stereophotogrammetric Patient Positioning System for Proton Therapy

Mr C. Chellens
in vivo dosimetry

HONORARY LECTURERS

Mr J. Korrubel
Electronics and medical instrumentation
RESEARCH OUTPUTS

THESES PASSED FOR HIGHER DEGREES


DEPARTMENT OF MEDICINE
(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
Postal Address: Department of Medicine
University of Cape Town Medical School
Observatory 7925
Cape Town
Telephone: SA (21) 406-6200
Fax: SA (21) 447-9670
E-mail: Ralph@uctgsh1.uct.ac.za

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

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64
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
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 Surgeons’ 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.

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 Children's Hospitals. The first project towards defining a policy for dealing with severe head injuries under conditions of severe resource constraints has been published.

**DEPARTMENTAL STATISTICS**

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**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**


**BOOKS**


**CHAPTERS IN BOOKS**


**CONFERENCE ABSTRACTS**


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


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

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 5th 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 SR Benatar gave an invited presentation at a Colorectal Cancer Symposium in Cape Town.
Prof T Zabow gave presentations at the International Conference on Ethics in Medical Education In Israel, and at the 13th World Congress of Medical Law in Helsinki.
Prof T Zabow gave presentations at the 11th 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
Postal Address: The Cardiac Clinic
E25 Groote Schuur Hospital
Observatory 7925
Cape Town
Telephone: SA (21) 404-6084
Fax: SA (21) 448-7062
Email: pjcomfrd@uctgsh1.uct.ac.za

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.

DEPARTMENTAL STATISTICS

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<th>STUDENTS</th>
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| 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 retavase/rapilysin (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, Dr A Okreglicki, 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, Professor RN Scott Millar**

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

**Dr A Okreglicki, Dr T Pillay, Professor R N Scott Millar**

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

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

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

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

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

**A Okreglicki & T Pillay**

CURE STUDY (clopidigrel 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 REFEREEED ARTICLES**


**CHAPTER IN BOOKS**

LETTERS


PUBLISHED CONFERENCE PROCEEDINGS


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
Telephone: SA (21) 406-6201
Fax: SA (21) 448-6815
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.

STATISTICS

PERMANENT AND LONG-TERM STAFF

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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

DOCTORAL THESIS PASSED FOR HIGHER DEGREES


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
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Cape Town
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Fax: SA (21) 448-6815
E-mail: suebotha@uctgsh1.uct.ac.za

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 fulfills 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 I diabetes. A phase 1 study, investigating the pharmacokinetic and immune responses to an altered peptide ligand in young volunteer subjects with type I 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.

UNIT STATISTICS

PERMANENT AND LONG TERM STAFF

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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


ABSTRACTS


UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE


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, 17th 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
Postal Address: GI Clinic, E23
New Main Building
Groote Schuur Hospital
Observatory 7925
Cape Town
Telephone: SA (21) 404-3040/1
Fax: SA (21) 447-0582
Email: jalouw@curie.uct.ac.za

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 Institüt, Berlin, Germany), and the GI Unit, University of Stellenbosch and Tygerberg Hospital.

UNIT STATISTICS

PERMANENT AND LONG TERM CONTRACT STAFF

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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


CHAPTERS IN BOOKS


UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE


CONFERENCE ABSTRACTS


THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES


UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE


GERIATRIC MEDICINE

ACTING HEAD - Dr SZ Kalula

CONTACT DETAILS
Postal Address: Geriatric Medicine
J47 Old Main Building
Groote Schuur Hospital
Observatory 7925
Cape Town
Telephone: SA (21) 406-6211
Fax    SA (21) 448-6815
Email: maxine@uctgsh1.uct.ac.za

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.

UNIT STATISTICS

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RESEARCH FIELDS

Professor AO Wilson
Characteristics and Prevalence of Dementia in Rural and Urban Xhosa communities; Syncope, carotid sinus hypersensitivity, arrythmias, 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)

DISTINGUISHED VISITORS

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

RESEARCH OUTPUTS

THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES

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
Telephone: SA (21) 406-6350
Fax: SA (21) 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:
Washington University Medical School, St. Louis, MO, USA. Collaborative study with Dr Daniel P. Kelly - Center for Cardiovascular Research.
University of California, San Diego, San Diego, CA, USA. Collaborative Study with Dr Ken Chien.

STATISTICS

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RESEARCH FIELDS

Dr Michael Sack, Dr Faadiel Essop, Ms Kholiswa Ngumbela, Ms Nayna Manga, Mr Siyanda Makuza, 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


BOOKS


CHAPTERS IN BOOKS

CONFERENCE ABSTRACTS


Meiring, J. 2000. TNFα promotes tolerance against ischemic damage in myocytes via NFκB activation - a putative autocrine/paracrine mediator of ischemic preconditioning. South African Heart Association Meeting, Stellenbosch.


Ngumbela, K. 2000. 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.


THESIS AND DISSERTATIONS


HYPERTENSION CLINIC

HEAD OF DEPARTMENT - Associate Professor Brian Rayner

CONTACT DETAILS
Postal Address: E13, New Groote Schuur Hospital
Observatory 7925
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Telephone: SA (21) 404-3495
Fax: SA (21) 448-2349
E mail: rayner@curie.uct.ac.za

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
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.

Frequency of Epithelial Na+ 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.

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.

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.

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.

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.

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

STATISTICS

PERMANENT AND LONG TERM CONTRACT STAFF

<table>
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<tr>
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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


CONGRESS ABSTRACTS

Rayner, B.L., Opie, L.H., Trinder, Y.A. & Davidson, J.S. 2000. Primary aldosteronism; a community based survey in 3 ethnic communities in Cape Town, South Africa. American Journal of Hypertension 13: 175A.

INTERNATIONAL CONGRESSES


LIPID CLINIC AND LABORATORY

HEAD OF DEPT - Associate Professor AD Marais

CONTACT DETAILS
Postal Address: Lipid Laboratory
Cape Heart Centre
University of Cape Town
Anzio Road
Observatory, 7925
Cape Town
Telephone: SA (21) 406-6166
Fax: SA (21) 406-6396
Email: Lizphil@uctgsh1.uct.ac.za

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.

STATISTICS

PERMANENT AND LONG TERM STAFF

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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
RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CONFERENCE ABSTRACTS


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

Clee, S., Henderson H.E., Ratanjee, B.D., Hayden, M.R. & Marais, A.D. 2000. Use of gradient gel electrophoresis (GGE) to investigate lipoprotein particle size in apo-E knock-out mice expressing variable levels of lipoprotein lipase. Medical Genetics, Univ British Columbia, Chemical Pathology and Internal Medicine, Univ of Cape Town. 6th LASSA Symposium, Durban, South Africa.


Marais, A.D. 2000. Electrophoretic descriptions of lipoproteins for the diagnosis of dyslipoproteinaemias. Lipid Laboratory, Internal Medicine, Health Science Faculty, University of Cape Town. 6th LASSA Symposium, Durban, South Africa.

Marais, A.D. 2000. The clinical approach to dyslipidaemia in South Africa. Lipid laboratory, Internal medicine, Health Science Faculty, University of Cape Town. 6th LASSA Symposium, Durban South Africa.

Marais, A.D., Byrnes, P. & Purdie, N. 2000. Modified Chugaev reaction for the derivation of cholesterol in lipoprotein fractions: a pilot study. Internal Medicine, University of Cape Town, Chemistry Department, Oklahoma State University, Stillwaters, OK, USA. 6th LASSA Symposium, Durban South Africa.

Marais, A.D., Jones, S., Firth, J.D., Byrnes, P., Ross, J.K., Moodie, M. & Gaffney, D. 2000. Familial defective apolipoprotein B is of varied origin in South Africa. Lipid Laboratory, UCT Health Science Faculty and Pathological Biochemistry, University of Glasgow, Scotland. 6th LASSA Symposium, Durban, South Africa.


UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE


MRC/UCT LIVER RESEARCH CENTRE

EXECUTIVE DIRECTOR – Professor RE Kirsch
CO-DIRECTOR – Professor J. Terblanche

CONTACT DETAILS
Postal Address: MRC/UCT Liver Research Centre
Departments of Medicine and Surgery
University of Cape Town
Medical School
Observatory, 7925
Cape Town
 Telephone: SA (21) 406-6200
Fax: SA (21) 447-9670
Email: ralph@uctgsh1.uct.ac.za

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:

- increasing the understanding of the liver in health and disease
- identifying and studying diseases of the liver which occur in Southern Africa
- identifying and studying measures capable of preventing liver disease
- identifying and studying methods of improving the health of patients with liver disease
- 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
- 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.

STATISTICS

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<th>PERMANENT AND LONG TERM CONTRACT STAFF</th>
<th>HONORARY STAFF</th>
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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 REFEREEED ARTICLES


CHAPTERS IN BOOKS


CONFERENCE ABSTRACTS


THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES


UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE


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

NEUROLOGY UNIT

HEAD OF UNIT - Associate Professor RW Eastman

CONTACT DETAILS
Postal Address: Neurology Unit
E8, New Groote Schuur Hospital
Observatory, 7925
Cape Town
Telephone: SA (21) 404-3198
Fax: SA (21) 406-6251
Email: reastman@uctgsh1.uct.ac.za

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 equiped 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.

STATISTICS

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<th>PERMANENT AND LONG-TERM CONTRACT STAFF</th>
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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
RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CONFERENCE ABSTRACTS


UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE

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.
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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 expenditive assessment, protein metabolism

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES

PUBLISHED CONFERENCE PROCEEDINGS

UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE

CONFERENCE ABSTRACTS


UNPUBLISHED RESEARCH/TECHNICAL / POLICY DOCUMENTS:


CONSULTANCIES AND OTHER COMMUNITY ACTIVITIES BASED ON EXPERTISE DEVELOPED IN RESEARCH

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.
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
Postal Address: Renal Unit
E13 Groote Schuur Hospital
Observatory 7925
Cape Town
Telephone: SA (21) 404-3318
Fax: SA (21) 448-2349
Email: pascoe@curie.uct.ac.za

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.

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| Medical Registrars | 3 |
| International Society of Nephrology | 1 |
| Fellow | |
| TOTAL | 4 |

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; post transplantation

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CONFERENCE ABSTRACTS


UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE


RESPIRATORY CLINIC

HEAD OF DEPARTMENT – Professor ED Bateman

CONTACT DETAILS
Postal Address: UCT Lung Institute
PO Box 34560
Groote Schuur 7937
Cape Town
Telephone: SA (21) 406-6901
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Email: ebateman@uctgsh1.uct.ac.za
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 Groote Schuur 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.

STATISTICS

PERMANENT AND LONG TERM CONTRACT STAFF

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TECHNICAL SUPPORT STAFF

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RESEARCH STAFF

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STUDENTS

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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


CHAPTERS IN BOOKS


CONFERENCE ABSTRACTS


**THESSES AND DISSERTATIONS PASSED FOR HIGHER DEGREES**


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


**CONFERENCE ABSTRACTS**


**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 Breuwskloof 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.
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
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Observatory, 7925
Cape Town
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Fax: SA (21) 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.

STATISTICS

<table>
<thead>
<tr>
<th>PERMANENT AND LONG-TERM CONTRACT STAFF</th>
<th>HONORARY STAFF</th>
<th>STUDENTS</th>
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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
DEPARTMENT OF NEUROSURGERY

HEAD OF DEPARTMENT - Professor Jonathan Peter

DEPARTMENTAL CONTACT DETAILS
Postal address: H-53, Old Main Building
Groote Schuur Hospital
Observatory
7925
South Africa
Telephone: SA (21) 406-6213/4
Fax: SA (21) 406-6555
e-mail: jcpeter@uctgsh1.uct.ac.za
deroosc@uctgsh1.uct.ac.za

DEPARTMENTAL PROFILE
The department continues to offer a comprehensive neurosurgery service to the people of the Western Cape. Our expertise in the field of interventional neurovascular surgery has been enhanced by the attendance of Dr Allan Taylor at the Neuro-interventional Course offered by Professor Lasjaunias in Malaysia together with the University of Paris. It is his intention to develop this service with the Department of Radiology. Dr Graham Fieggen attended courses in endoscopic neurosurgery in Germany and has developed this aspect of our service to include both children and adults.

Clinical and laboratory research continues in the field of vascular, spinal, pituitary, paediatric neurosurgery and epilepsy surgery.

Our operative work has been greatly enhanced by the acquisition of the Olympus Neurosurgical Microscope from George. The department is grateful to Dr MacMahon's help in this regard. Dr Taylor's costs have been funded by the Taeuber Management Trust who have committed themselves to helping with a development programme for the Neurosurgery Department.

DEPARTMENTAL STATISTICS 2000

PERMANENT AND LONG TERM CONTRACT STAFF

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HONORARY STAFF

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RESEARCH FIELDS

PERMANENT STAFF

Professor Jonathan Peter
Head of Department; Dysraphism, spasticity in cerebral palsy; Epilepsy surgery; Posterior fossa tumours in children; Hydrocephalus; CNS infection; Head trauma

Dr Patrick Semple
Snr Specialist; Pituitary disease, Head trauma, Vascular surgery

Dr Allan Taylor
Snr Specialist; Vascular surgery, Intraventricular haemorrhage in premature babies, Stereotactic surgery, Neuronavigational technology development, and Skull Base surgery

Dr Graham Fieggen
Snr Specialist - Paediatric Neurosurgeon; Dysraphism, Stereotactic surgery, Head Trauma, Epilepsy surgery and Paediatric Oncology

HONORARY PROFESSORS

Professor Jacquez Charl de Villiers
Honorary Consultant; Pituitary disease

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CHAPTERS IN BOOKS


UNIVERSITY PUBLICATIONS AND PUBLICATIONS OF A POPULAR NATURE


DEPARTMENT OF NUCLEAR MEDICINE

ACTING HEAD OF DEPARTMENT - Professor S. Beningfield

DEPARTMENTAL CONTACT DETAILS
Postal address:     Department of Nuclear Medicine
                         C3 New Groote Schuur Hospital
                         Observatory  7925
Telephone:          SA (21) 404-4169
Fax:                SA (21) 404-3402
Email:              abf@curie.uct.ac.za

DEPARTMENTAL PROFILE

Ongoing projects include:

• Bone scans and ERNAS on patients with cancer of the breast and prostate who are on various treatment protocols
• Ventilation/perfusion lung scans in patients who are part of a multi institution trial using a new anti-coagulant following DVT or pulmonary embolus.
• GFR studies in patients receiving therapy for carcinoma.
• Bone mineral density scans for the department of gastro enterology.

DEPARTMENTAL STATISTICS 2000

PERMANENT STAFF

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<th>UCT/CPA JOINT STAFF</th>
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STUDENTS

| Masters | 1 |
| TOTAL   | 1 |

RESEARCH FIELDS

PERMANENT STAFF

Dr A B Fataar
  Senior Lecturer; osteodensitometry; bone scintigraphy; cerebral perfusion etc

Mrs L Bewerunge
  Osteodensitometrist; research co ordinator

Miss G Boltman
  Chief Radiographer; part time lecturer & network user administrator; cell labelling; radiation protection

Mr J Boniasczuk
  Chief Radiographer & part time lecturer; instrumentation; quality control

Mrs P Freedman
  Chief Radiographer & part time lecturer; gastric emptying; colonic transit
Mrs G Philotheou
Radiography Fulltime Lecturer; distance education

RESEARCH OUTPUT

CONSULTANCY

Dr A.B. Fataar and Ms G. Boltman visited Windhoek Hospital in Namibia as part of the IAEA (International Atomic Energy Agency) assessment of various Nuclear Medicine facilities. Mrs P. Freedman and G. Philotheou visited Uganda, Kenya and Sudan under the same programme. Miss G. Boltman went on a scientific visit to London & Oxford to observe techniques in breast and SPECT brain imaging under the auspices of the IAEA. Ms G. Boltman, P Freedman and G. Philotheou were involved in the organising of the S.A. Society of Radiographers 15th Annual Congress in Cape Town in September 2000. Presentations at this congress made by Dr A. Fataar, P.F. Freedman, G. Boltman and J. Boniaszczuk and G.M. Philotheou. P. Freedman presented a poster on colonic transit in spinal cord injuries at the Society of Nuclear Medicine Congress in April 2000 in Bloemfontein.
DEPARTMENT OF NURSING

ACTING HEAD OF DEPARTMENT – Associate Professor S.E. Clow

DEPARTMENTAL CONTACT DETAILS
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University of Cape Town
Anzio Road
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7925
South Africa
Telephone: SA (21) 406-6319
Fax: SA (21) 406-6497
Email: sclow@uctgsh1.uct.ac.za

DEPARTMENTAL PROFILE

A major event in the life of the Department of Nursing was the early retirement of Professor Rosalie Thompson, who has been associated with this department for 27 years, and Professor and Head for the past 18 years. Her considerable contribution to nursing at this university and further afield will be greatly missed. Probably her most important contribution was that of entirely redesigning the undergraduate Bachelor of Nursing programme in 1984 to one that was health based recognising the whole person within the context of the family and wider community. This approach was well in advance of the development towards a primary health care based approach in national health policy and in the curriculum approach of the Faculty of Health Sciences. This courageous initiative was also brought to bear on her work with the South African Nursing Council on which she served two terms as an active member of the education committee and latterly the executive committee.

It is often said of Nursing that it is the backbone of the health service. As nurses are the professional group closest to the population in terms of demography and accessibility, they have the potential to play a substantial role in transformation. Nursing however is not only about systems and structures, but has at its heart a commitment to caring within the context of relationship. A nurse without this commitment and skill is, at best, a skilled technician, and perhaps it is the recognition of this lack of commitment to caring that has resulted in widespread disenchantment with nurses by the South African public over the past few years. This central characteristic of caring needs to be reclaimed and developed. However this does not happen in a haphazard way.

40% of our population is under the age of 15 years. This is a priority and poses a major challenge to education and training of nurses and health care professionals in this country and beyond our borders as well. Dr Minette Coetzee, who is a child nurse, was awarded her PhD in December 2000 for her thesis entitled ‘Learning to engage children : towards a model for undergraduate students in nursing – a grounded theory study. This thesis arose from an interest in understanding how undergraduate students learn in the practice-based discipline of nursing, especially when working with very vulnerable children. The specific contribution of this research is that it makes the complex, and often hidden, process of learning to nurse children visible. Her conceptual model describes the processes that students use as they interact and work with children and their families. The thesis contributes to the theoretical base of experiential learning and has relevance in the international arenas of both nursing and education.

Inadequate staffing continues to be a limiting factor in both teaching and research. Academic staff have had difficulty in meeting their research and publication goals due to the heavy teaching and clinical supervision loads. Academic staff contribute at all levels of the profession and to the health service in general, but need to further develop the department’s research expertise to support nurses in evidence-based practice. Current contributions to the national debates are in the area of changing legislation governing nursing practice, the formation of a standards generating body for nursing and midwifery, and management preparation of nurses for district level practice.
There were five Masters graduates in 2000 - the largest haul in a single year. Tanya Doherty who was awarded the degree cum laude is currently studying at Harvard on a Fulbright Scholarship. Three of the graduates of 1999 were awarded the Juta research award for the best undergraduate nursing research in the country – the fifth time in seven years that this award has been awarded to UCT students.

The Department of Nursing introduced a Bachelor of Nursing programme for registered nurses in 1999. The envisaged product of such a programme is a set of graduates groomed for leading the nursing profession into the 21st century. The changing economy and the financial pressure on the health services have had the effect of reducing the viability of a one-year study leave option for professional nurses to further their education. It is thus imperative that nursing education adapt to the needs of the practising nurse, and the department has therefore introduced this part-time, flexible, modular degree programme for professional nurses. This is a first in this university and in this region at the undergraduate level. It also incorporates the principles of recognition of prior learning, in line with SAQA, as recognition is given for diplomas in nursing. There is potential for this programme to be further developed as a dual mode programme i.e. both residential and distance options.

The programme also enables students to elect certain pathways that will lead to additional professional registration with the South African Nursing Council eg Child Nursing, Critical Care Nursing, Nursing Management and Advanced Midwifery. This year, the first four graduates completed the degree in record time one of whom obtained the degree with distinction. Two of the graduates also obtained their qualifications as nurse educators.

The Department of Nursing, in collaboration with the Groote Schuur Hospital Nursing Division, convened the sixth annual Road to Research in August 2000. This activity is an outworking of the department’s commitment to fostering nursing research, and of developing a research ethic and capacity beyond the confines of the department, as well as building opportunities for future collaboration.

**DEPARTMENTAL STATISTICS 2000**

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<tr>
<th>PERMANENT AND LONG TERM CONTRACT STAFF</th>
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**RESEARCH FIELDS**

**PERMANENT STAFF**

**Professor R.A.E Thompson**
- The meaning of health; mature women’s health; domestic worker women; nursing education

**Associate Professor S.E Clow**
- Acting Head of Department; midwifery; women’s health; vacuum extraction deliveries by midwives; Safe Motherhood Initiative; political violence and health; domestic worker women; health policy

**Dr M Coetzee**
- Senior Lecturer; children’s nursing; nursing education; children of domestic worker women

**Mrs R.B Hill**
- Senior Lecturer; quality assurance; business process reengineering; change management; forensic nursing; medico-legal issues

**Mrs P.M Mayers**
- Senior Lecturer; mental health; chronic fatigue syndrome

**PART-TIME CONTRACT STAFF**

**Mrs U Kyriacos**
- Ethics, nursing education patient compliance following open heart surgery for valve replacement
DISTINGUISHED VISITORS

Dr K Carr
Vice President, American College of Nurse-Midwives. People to People Midwifery delegation leader
Janet Selway
Johns Hopkins University of Nursing. People to People Nurse Practitioner delegation leader
Dr Nancy Bryant
Aga Kahn University, Karachi Pakistan
Dr Monica Habermann
University of Bremen, Germany

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CONFERENCE PAPERS

Mayers, P.M. 2000. The Lived Experience of Persons suffering from Chronic Fatigue Syndrome. Paper accepted for presentation to the International Qualitative Research Conference, Banff, Canada.

THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES

Michell, K. 2000. A quantitative and qualitative assessment of the knowledge and understanding professional nurses have of occupational hazards they are exposed to in the operating theatre. M.Sc. dissertation, University of Cape Town.

CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPED RESEARCH

Staff in the department serve on numerous editorial boards and review panels of peer-reviewed journals.
Thompson, R.A.E. Serves as a member of the panel of overseas advisers and reviewers for the Journal of Advanced Nursing, London.

Clow, S. A member of the review panel and editorial board for Curationis – the South African nursing research journal.

Clow, S. Currently assisting case managers (largely nurses) in the managed care sector. She has consulted both nationally and locally in working towards setting appropriate standards and a legislative framework for this new area of practice.

Clow, S. Member of the committee convening the establishment of an Active birth unit at Mowbray Maternity Hospital

Clow, S. External examiner for the University of Natal’s MCur degree and MSocSc degree.

Clow, S. External examiner for the University of Cape Town’s MPhil degree (Maternal and Child Health)

Clow, S. International Council of Nurses ICN Code of Ethics for Nurses (revised 2000) ICN : Geneva 2000. (Professor SE Clow was one of seven members of the ICN expert panel for reviewing the International Code for Nurses. This has been adopted by the 129 member organisations and has been published.)


Coetzee, M. An external examiner for the University of Cape Town’s MPhil degree (Maternal and Child Health).

Fouché, N. Critical Care Society of Southern Africa. Co-opted onto the Executive Council of the Critical Care Society to address the crisis of critical care nurse training & shortage.

Hill, R.B. An external examiner for the University of the Witwatersrand MSc (Nursing) programme.

Hill, R.B. An external examiner for the University of Namibia’s BA (Nursing) programme.

Hill, R.B. An external examiner for the University of Stellenbosch’s BA (Nursing) programme.

Hill, R.B. Acted as expert witness at inquests, concerning expectations of the ‘average nurse practitioner’, and more recently has been appointed Nurse Assessor assisting the Magistrate during inquests.

Kyriacos, U. Appointed as consultant, lecturer and examiner to the South African Red Cross Society in respect of their new national programme for training in community-based care with an emphasis on the needs of HIV/AIDS sufferers.

Mayers, P.M. Member of the Advisory Group for the Nursing Education Tomorrow conference, held annually in Durham, UK.

Mayers, P.M. Member of the International Review panel for a new journal: Nurse Education in Practice, to be launched 2001.

Mayers, P.M. Examiner for course work masters dissertation (Occupational Therapy), UCT, November 2000.

Mayers, P.M. Acts as the South African link person for the National Network for Psychiatric Nursing Research group based in the UK.

All staff are involved in curriculum review and transformation of Western Cape College of Nursing.
DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

HEAD OF DEPARTMENT: Prof Z. M. van der Spuy

Postal Address: Department of Obstetrics and Gynaecology
H Floor, Old Main Building,
Groote Schuur Hospital
Observatory 7925
South Africa
Telephone: SA (21) 406-6112
Fax: SA (21) 448-6921
e-mail: jsorrel@uctgsh1.uct.ac.za

DEPARTMENTAL PROFILE

During the year 2000, steady research progress took place in all subspecialty areas of Obstetrics and Gynaecology with an increased number of refereed publications appearing in print during the year.

The Oncology Unit had a particularly productive year with six refereed publications. Much of this work was associated with studies examining different methods of screening for cervical cancer. Professor Lyn Denny, who has been at the centre of this research, and her American collaborators have received considerable international recognition for the work carried out at Khayelitsha. This has resulted in ongoing external funding and many opportunities to speak as an invited speaker at a number of prestigious meetings including the FIGO meeting in Washington.

The Reproductive Medicine Unit published five papers. Two of these publications reflected the work of the Contraceptive Development Network to which the UCT Gynaecology Department is affiliated. This is a significant international link concerned with evaluating and developing contraceptive strategies in both developing and industrialised societies. This research is internationally funded and externally audited. The Cape Town unit has made a significant contribution to these studies and after the last cycle of audit was invited to continue as a key participant in these collaborative studies. The Reproductive Medicine Unit has also been engaged in ongoing clinical trials of the anti-progestogen trilostane. This work is unique and likely to have a significant impact on the management of labour including induction of labour in early pregnancy.

The Maternal and Fetal Medicine Unit also published five refereed papers during the year 2000. Two of these publications were in the area of critical care while Professor Ed Coetzee, together with Professor Dinky Levitt, published an authoritative review of diabetic management in Seminars in Neonatology. Members of the unit were privileged to attend and present work on homocysteine and apolipoprotein E at the biannual meeting of the International Society for Study of Hypertension in Pregnancy in Paris. Several projects were successfully concluded during 2000 and are currently in press. New collaborative links were also established with the Immunology unit at the University of Cape Town and there is every prospect of a productive year ahead.

During the year 2000, the Department has shown considerable strength in the extremely difficult area of clinical research. The Department, however, lacks adequate access to laboratory-based research medicine. It is hoped that the current Faculty initiatives designed to develop molecular biological sciences will bear fruit and that the opportunity to carry out meaningful laboratory research relevant to our own peculiar circumstances will soon become a reality. In the meantime, it should be recognised that the productivity of a clinical department is achieved only after a great deal of hard and often tedious work. It is therefore a tribute to the clinical staff of the Department that despite an enormous burden of clinical work and teaching, they still manage to find time to plan and execute high quality clinical research.
DEPARTMENTAL STATISTICS 2000

PERMANENT AND LONG TERM CONTRACT STAFF

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RESEARCH FIELDS

Professor Zephne van der Spuy
Contraceptive and interceptive development; reproductive failure; polycystic ovary syndrome; endocrine dysfunction; hormone replacement therapy

Professor John Anthony
Randomised controlled trial of nimodipine versus magnesium sulphate for the prevention of eclamptic seizures; Randomised controlled trial of low molecular weight heparin versus warfarin for the management of patients with prosthetic heart valves; Study of ApoE genotype polymorphism and dyslipidaemia among women with pre-eclampsia; critical care management: ICU scoring systems; non-invasive methods of haemodynamic monitoring; Homocysteine metabolism in pre-eclamptic women and autonomic changes in pre-eclampsia compared to non-pregnant and normal pregnant controls

Professor Mitch Besser
HIV

Professor Edward Coetzee
Fetal ultrasound and diabetes; Prevention of mother-to-child transmission of HIV

Dr Janet Cole
Cervical cancer and HIV

Dr Peter de Jong
Gynaecological endoscopic surgery; urinary incontinence

Dr George Draper
Teaching methodology; Community obstetrics

Professor Lynette Denny
Cervical cancer screening; Rape protocol; Termination of pregnancy services

Dr Silke Dyer
Infertility and menopause

Dr Susan Fawcus
Maternal mortality; Abortion; Infections in pregnancy

Dr Keith Gunston
PMS; Rhesus disease; Health systems

Dr Tham Matinde
Decision delivery/interval in emergency caesarean sections

Dr Arthur Nongauza
Reproductive failure; Nutritional status in abruptio placentae

Dr Leann Schoeman
Management of rape victims; high risk obstetrics

Dr Chantal Stewart
Preterm labour; Pre-term premature membrane rupture, Ultrasound
EMERITUS PROFESSORS

Professor Dennis Davey
Hormone replacement therapy and osteoporosis

DISTINGUISHED VISITORS

Dr Bridgette Byrne
University College Hospital, Galway, Ireland; obstetric medicine
Professor Wulf Utian
HRT in the older woman
Dr Marikje Alblas
expert in the field of Fertility Regulation and Termination of Pregnancy; training in a variety of techniques for termination of pregnancy
Dr Thomas Wright, Jr.
Columbia University, New York
Dr Louise Kuhn
Columbia University, New York
Professor Robert Shull
Scott White Clinic, Temple, Texas, USA; genital prolapse
Dr Michael O'Connell
Hull Maternity Hospital, United Kingdom; amniotic fluid study
Professor Paul Hilton
Newcastle; presented at the Pelvic Floor Society
Professor Tony Smith
St Mary's Hospital, Manchester, United Kingdom; GP Refresher Course Guest Speaker; RCOG visiting lecturer
Professor Michael de Swiet
Queen Charlottes Hospital, United Kingdom; lectured on Lessons from the Maternal Mortality Enquiries
Dr Markus Waloch
Nkana Hospital, Kitwe, Zambia
Dr Stephen Lindow
University of Hull, United Kingdom; collaborative research; Clause 18 visitor; Refresher Course guest speaker
Professor Sturla Eik-Nes
National Center for Fetal Medicine, Department of Obstetrics and Gynaecology, University Hospital of Trondheim, Norway; lectured on the Detection of Fetal Anomalies, How, What and When
Professor Richard Lilford
University of Birmingham
Dr Caroline Crowther
Adelaide University for the Cochrane Colloquium
Professor Jeffrey Nisker
Coordinator Bioethics and London Health Sciences Centre, Ontario, Canada; Editor of Society of Obstetrics and Gynaecologists Journal

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CHAPTERS IN BOOKS


PUBLISHED CONFERENCE PROCEEDINGS


CONFERENCE ABSTRACTS


THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES


UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE


UNPUBLISHED RESEARCH/TECHNICAL POLICY DOCUMENTS

Denny, L. & Martin, L. 2000. Policy for Management of Rape Survivors. Accepted by PAWC Health Department.

CREATIVE WORKS, PERFORMANCES, EXHIBITIONS


CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPED RESEARCH

Anthony, J. Committee member of the Faculty of the South African College of Obstetricians and Gynaecologists.
Coetzee, E.J. Secretary of the Faculty of the South African College of Obstetricians and Gynaecologists.
Coetzee, E.J. Chairman of the South African Society of Ultrasound in Obstetrics and Gynaecology.
Coetzee, E.J. Member of the Council of South African of the South African Society of Obstetricians and Gynaecologists.
Denny, L. Chairperson, Board of Trustees, Rape Crisis, Cape Town since 1998, ongoing.
Denny, L. Consultant to GF Jooste, Thutuxela Rape Centre, ongoing.
Dyer, S. Chairman - South African Society of Medical Women.
Dyer, S. Executive Committee Member of the South African Society of Reproductive Scientists and Surgeons.
Van der Spuy, Z.M. Chairman - South African Representative Committee of Royal College of Obstetricians and Gynaecologists.
Van der Spuy, Z.M. Committee member of the Faculty of the South African College of Obstetricians and Gynaecologists.
Van der Spuy, Z.M. Committee member of the South African Society of Obstetricians and Gynaecologists.
Van der Spuy, Z.M. Editorial Board of Gynaecology Forum.
Van der Spuy, Z.M. Editor of Obstetrics and Gynaecology Forum.
Van der Spuy, Z.M. Principal Investigator, Cape Town Branch of Contraceptive Development Network.
DEPARTMENT OF OCCUPATIONAL THERAPY

HEAD OF DEPARTMENT - Professor Ruth Watson

DEPARTMENTAL CONTACT DETAILS

Postal address: Department of Occupational Therapy
Health Sciences Faculty
Old Main Building
Groote Schuur Hospital
Observatory
7925
South Africa
Telephone: SA (21) 406-6395
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e-mail: rwatson@uctgsh1.uct.ac.za
web-page: http://www.uct.ac.za/depts/occther

DEPARTMENTAL PROFILE

The Department of Occupational Therapy aims to promote the health of individuals, groups and communities through their involvement in the occupations of life and the vehicle of a primary health care approach. Research is undertaken in the following areas: district-based rehabilitation; equal opportunities for disabled people (including entrepreneurship; children with special needs; productive behaviour of people with mental illness); student learning; values and ethics; and the occupations of particular groups (including women who live in poverty and the severely disabled).

DEPARTMENTAL STATISTICS 2000

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<th>PERMANENT AND LONG TERM CONTRACT STAFF</th>
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STUDENTS

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RESEARCH FIELDS

PERMANENT STAFF

Associate Professor Ruth Watson
Head of Department, qualitative research related to disability studies, health systems and community-based rehabilitation
Ms Madeleine Duncan
Senior Lecturer, contemporary ethics, psychosocial rehabilitation of hospitalised persons who have mental illness

Ms Lana van Niekerk
Senior lecturer; participatory action research; community-based entrepreneurship development; writing for clinical reasoning; systems theory; psychiatric disability and work

Ms Helen Buchanan
Lecturer; writing for clinical reasoning; outcome-based practice and rehabilitation

Ms Theresa Lorenzo
Lecturer; disability issues; community-based entrepreneurship development; participatory action research; development of information systems for rehabilitation, gender issues

CONTRACT STAFF

Ms Elelwani Ramugondo (Development post)
Lecturer, diversity in the learning context; developmental issues of children with HIV/AIDS; play and caregiver-child interaction with children living with HIV/AIDS and development of occupational therapy service at school clinics in the Western Cape

Ms Roshan Galvaan (Development post)
Lecturer; qualitative research; occupational storytelling; transitional occupations of domestic workers

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CONFERENCE ABSTRACTS


Isaacs, R. 2000. Exit: Come and talk about your stay… Poster presented at the Western Cape Psychosocial Rehabilitation Conference: Crossing Boundaries Towards Quality in Mental Health Care, Cape Town, South Africa.


THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES


UNPUBLISHED RESEARCH/TECHNICAL/POLICY DOCUMENTS

Armour, S., Kellard, G., Tapson, D., Williams, T. & Ramugondo, E. 2000. A descriptive study exploring the caregivers’ understanding of play, the attitudes they have towards play and the importance they attach to play for children with HIV/AIDS, at the Groote Schuur HIV/AIDS clinic. Department of Occupational Therapy, University of Cape Town.


Brodrick, K. 2000. The individual, group and population interventions, with reference to the rehabilitation models i.e. biomedical, client-centred, community-based and independent living. (Assignment done in partial fulfilment of MSc degree in Occupational Therapy). Department of Occupational Therapy, UCT.


Muller, S. 2000. The process of rehabilitation with particular attention to occupational therapy specific services and the African context. (Assignment done in partial fulfilment of MSc degree in Occupational Therapy). Department of Occupational Therapy, UCT.


Sonnie, W. 2000. A critique of the foundation pillars of disability studies. (Assignment done in partial fulfilment of MSc degree in Occupational Therapy). Department of Occupational Therapy, UCT.

Twigg, D., Venning, N., Vriend, I. & Galvaan, R. 2000. A study describing the Fountain House members’ perspective of the factors which influence independent employment seeking after the transitional employment programme at Fountain House (SA).

CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPED IN RESEARCH

Lorenzo, T. 2000. A consideration of disability issues and international disability: Programmes and policy. A seminar to Faculty of Theology, Uppsala University; Sweden.
DEPARTMENT OF OPHTHALMOLOGY

HEAD OF DEPARTMENT - Prof A D N Murray

DEPARTMENTAL CONTACT DETAILS
Postal address: Department of Ophthalmology
               UCT Medical School
               Observatory
               7925
               South Africa
Telephone : SA (21) 406-6216/5
Fax : SA (21) 406-6218
email : NVuuren@uctgsh1.uct.ac.za

DEPARTMENTAL PROFILE
The corneal clinic is investigating factors affecting the healing of corneal ulcers. The paediatric unit is involved in 3 projects: a trial comparing photoscreening devices used for the detection of strabismus and/or refractive errors, an ongoing study of retinopathy of prematurity in the current health care system, and a study collecting prospective and retrospective data on congenital cataract surgery with the "Helen Keller Worldwide" organisation. The retinal unit is involved in a multicentric randomized study evaluating the use of intravitreous hyaluronidase to clear vitreous haemorrhage. The strabismus unit is involved in four international multicentric projects: a prospective randomized trial of botulinum toxin in traumatic sixth nerve palsy, a prospective randomized clinical trial to assess whether very early surgery for infantile esotropia is beneficial, a prospective randomized study to determine whether pre-operative alternate occlusion improves binocularity and a study to determine the degree of binocular vision in patients with untreated infantile esotropia who are aligned as visual adults. The uveitis clinic is involved in a study assessing aqueous PCR levels in patients with luetic eye disease and a prospective trial to establish the role of intravitreal corticosteroids, in addition to antibiotics, for endophthalmitis.

These projects are in addition to seven local interdepartmental projects and twelve departmental projects.

DEPARTMENTAL STATISTICS 2000

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RESEARCH FIELDS

PERMANENT STAFF (FULL-TIME)

Dr R Grotte
Paediatric Consultant in Charge at Red Cross Childrens' Hospital; Paediatric Ophthalmology
Dr K A Lecuona  
Consultant Specialist; Groote Schuur Hospital; Lacrimal Drainage Disorders; Chloroquine Retinopathy; Audit of admission profiles in the Department of Ophthalmology; Glaucoma; Ocular Oncology

Prof A Murray  
Professor and Head, Department of Ophthalmology, UCT Medical School and Groote Schuur Hospital; Strabismus

Dr A Perrott  
Consultant specialist: Groote Schuur Hospital; Anterior Segment Surgery; Glaucoma

PERMANENT STAFF (PART-TIME)

Dr A Aleksic  
Anterior Segment

Dr D Duval  
Retina

Dr J C Hill  
Corneal Disease; Refractive Surgery

Dr A Ivey  
Cataract; Strabismus; Paediatric Ophthalmology

Dr M Johnston  
Vitreo-Retinal Disease, Oculoplastics

Dr F Kupper  
Anterior Segment

Dr R Maske  
Ocular Allergy; Corneal disease, Anterior Segment

Dr M Mesham  
Glaucoma; Refractive Surgery

Dr B Phillips  
Anterior Segment

Dr R Scholtz  
Vitreo-Retinal Disease

Dr M S Solwa  
Glaucoma, Diabetes

Dr P Steven  
Neuro-Ophthalmology

Dr K Suttle  
Vitreo-Retinal Disease, Orbital Disease, Oculoplastics

Dr C Willies  
Anterior Segment Surgery, Oculoplastics

DISTINGUISHED VISITORS

Dr Robert Doran  
Leeds

Prof M Luntz  
New York

Dr Bradley Black  
Louisiana, USA

RESEARCH OUTPUTS

PAPERS AND ARTICLES

Johnston, M. 2000. A safety and efficacy assessment of hyaluronidase solution injected into the vitreous body of the eye to hasten the clearing of blood from the vitreous. Department of Ophthalmology, University of Cape Town.
Richards, J. 2000. Prospective, observational double blind controlled trial to establish the use of intravitreal corticosteroids, in addition to standard intravitreal antibiotics, for endophthalmitis. Department of Ophthalmology, University of Cape Town.

CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPED IN RESEARCH

Professor Anthony Murray is Vice-President of the International Strabismological Association; Co-Chairman Sub-Saharan Africa Region, International Agency for the Prevention of Blindness; Member International Affairs Committee, American Association of Pediatric Ophthalmology and Strabismus and Board Member of the Pan Arab African Council of Ophthalmology. He serves as a member of the Department of Health's National Blindness Prevention Programme Committee and on the International Advisory Board of the Journal “Survey of Ophthalmology”. He delivered the Angeline Park's Memorial Lecture in Washington in March 2000. He was elected to Chair IV of Academia Ophthalmologica Internationalis, the academic arm of the International Council of Ophthalmology, in May 2000.

Dr. Rhian Grotte acts as a consultant on congenital cataract surgery to the Helen Keller Foundation.
DEPARTMENT OF ORTHOPAEDIC SURGERY

HEAD OF DEPARTMENT:  Professor Johan Walters

DEPARTMENTAL CONTACT DETAILS
Postal address:   Department of Orthopaedic Surgery  
H49 Old Main Building  
Groote Schuur Hospital  
Observatory 7925  
South Africa
Telephones:   SA (21) 406-6157/8
Fax:     SA (21) 447-2709
e-mail:    JWalters@uctgsh1.uct.ac.za

DEPARTMENTAL PROFILE
The Department of Orthopaedic Surgery engaged in its first meaningful contract research project involving the use of recombinant Bone morphogenic protein in tibial fractures. We will look to promote our clinical strengths for future research purposes. Arthroplasty, Paediatric Orthopaedic Surgery and Trauma remain the most productive areas.

DEPARTMENTAL STATISTICS

PERMANENT AND CONTRACT STAFF

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STUDENTS

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<td>Diploma in Orthopaedic Nursing Science</td>
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HONORARY STAFF

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RESEARCH FIELDS

PERMANENT STAFF
Professor Johan Walters
Head of Department: Knee Replacement after Osteotomy; Anterior Cruciate Bone Tunnel Study; Bone defects in Hip and Knee Replacement; Tibial Plateau Bone Graft in Knee Replacement, Patelllectomy – An Outcome Study; Osteotomies around the knee: Long-term outcome study; a new Humeral Intramedullary Nail, a new Exoskeletal Fixation device; an Anatomical Study of Gluteus Minimus
Associate Professor EB Hoffman
Head, Orthopaedic Service, Red Cross Children's Hospital; Rectus femoris transfer in diplegic cerebral palsy patients; Outcome of the management of simple bone cysts treated with steroid injection

Dr C Maraspini
Senior Lecturer, Groote Schuur Hospital; Fractures of the Distal Radius - ongoing review of functional results; Osteotomy for malunion of distal radial fractures; Fractures of the femoral neck in the elderly - a functional review; Fibular osteotomy for delayed union of the tibia

Dr GM Siboto
Senior Lecturer, Groote Schuur Hospital; A prospective study on Pelvic and Acetabular Fractures

Dr MW Solomons
Head, Martin Singer Hand Unit, Groote Schuur Hospital; Gluteus Minimus: Observations on its Insertion; Mechanics of External Fixation; Fracture Dislocations around the Elbow; Humerus Shaft Fractures; Distal Femur Fractures; Two-Stage Flexor Tendon Grafting

Dr GP Grobler
Part-time Lecturer, Princess Alice Orthopaedic Unit; 5 year results of the Duraloc Cup in THR; Long term results of bone grafting in revision hip surgery; Hip and knee pathology in 1st class rugby players after 10 years; Results of cementless THR; Beads vs hydroxyapatite

Dr W de Jager
Part-time Senior Lecturer, Hand Unit, Groote Schuur Hospital; Sports injuries of the Hand; Brachial plexus injuries

Dr G du Toit
Part-time Senior Lecturer, Princess Alice Orthopaedic Unit; A retrospective review of lumbar spinal fusions performed with various pedicular fixation devices to assess the efficacy of these devices in achieving a fusion; A continuing prospective study on the use of Segmental Spinal Correction System in the management of lumbar spinal pathology; A retrospective review of the efficacy of anterior transthoracic decompression of the spinal cord in paraplegia caused by progressive congenital non-dysrathic spinal deformities

Dr P Makan
Part-time Senior Lecturer, Groote Schuur Hospital; Prospective study to evaluate the “Cervical-U-Fixator” in Atlantoaxial fusions: Attempt at improving the clinical assessment of lumbar spinal stenosis with the use of the “Shuttle Walking Test” and by designing a new questionnaire - “The Oxford Claudication Score”; Respective review of the local experience with the use of the Spine Rectangle in instrumental spinal fusions; Basic science study assessing the effects of alcohol on bone in rats

Dr AM Mullins
Part-time Senior Lecturer, Princess Alice Orthopaedic Unit; Ankle Arthrodesis

Dr BC Vrettos
Part-time Senior Lecturer, Groote Schuur Hospital; Shoulder and trauma; A new Humeral Intramedullary Nail

CONTRACT RESEARCH STAFF

Mrs J Hearne
Orthopaedic records

DISTINGUISHED VISITORS

Professor Charles Galasko
Orthopaedic Surgeon, Department of Orthopaedic Surgery, University of Manchester, UK

Mr Graham Keys
Orthopaedic Surgeon, Macclesfield District General Hospital, UK

Professor Ian Learmonth
Orthopaedic Surgeon, University of Bristol, UK

Professor Philippe Neyret
Orthopaedic Surgeon, Hospital de la Croix-Rousse, Caluire, France

Professor E H Simmons
Orthopaedic Surgeon, Buffalo, USA

Dr Thomas Thornhill
Orthopaedic Surgeon, Brigham and Women’s Hospital, Boston, USA

Dr Leo Whiteside
Orthopaedic Surgeon, Bone & Joint Centre, St Louis, Missouri, USA
RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CONFERENCE ABSTRACTS

DEPARTMENT OF OTOLARYNGOLOGY

HEAD OF DEPARTMENT - Professor Sean Sellars

DEPARTMENTAL CONTACT DETAILS

Postal address: Department of Otolaryngology
University of Cape Town
Medical Faculty
Anzio Rd
Observatory
7925
South Africa
Telephone: SA (21) 406-6420
Fax: SA (21) 448-6461
e-mail: jrooyen@uctgsh1.uct.ac.za

DEPARTMENTAL PROFILE

The Department combines an academic hospital service with a university teaching, training and research commitment. It provides specialist clinical services to patients in the Western Cape and to those referred from other Provinces and teaches nursing staff in training and Primary Health care medical officers. Its University responsibilities include in-hospital and community based training of 160 5th year medical students, the teaching of dental and para-medical students, and the specialist training of both local graduates and graduates from other countries. A major outreach programme supplements the training of students and primary health care workers in the fundamentals of ear care. Clinical research and publication of research studies are encouraged at all levels.

DEPARTMENTAL STATISTICS

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RESEARCH FIELDS

Banfield, G
Gunshot wounds of the neck; ear disease in state prisoners

Chidziva, C
HIV disease in the head and neck

Hassan, H, Al
Otologic disease in the urban and rural community

Karjieker, A
Ototoxicity and tuberculosis
Fagan, J.J.  
Head and neck cancer; dissection outcomes for malignancy

Prescott, C.A.J.  
Undergraduate teaching and training; teaching and training of ENT in developing countries; ENT in primary care; acoustic rhinometry in children

Sellars, S.L.  
Specialist training in South Africa; laryngeal disease; clinical outreach

Thander, M.Z.  
Outcomes of choanal atresia surgery; ENT manifestation of HIV in children

Vanlierde, M.R.  
Stroboscopy and voice pathology

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREEED ARTICLES


DEPARTMENT OF PAEDIATRIC PATHOLOGY

HEAD OF DEPARTMENT: Associate Prof. Colin Sinclair-Smith

DEPARTMENTAL CONTACT DETAILS

Contact Details: Paediatric Pathology
Institute of Child Health
University of Cape Town
Red Cross Children’s Hospital
Klipfontein Road
Rondebosch
7700
Telephone: SA (21) 658-5249/36
Fax: SA (21) 658-5485 or 689-1287
Email: cs-smith@ich.uct.ac.za

DEPARTMENTAL PROFILE

The Department of Paediatric Pathology is predominantly a laboratory service department to Red Cross Children’s Hospital and to paediatric, neonatal and fetal services to other Western Cape Health Care Institutions. The pathology service functions as an amalgum of four sub units comprising: Anatomical Pathology, Chemical Pathology, Haematology and Medical Microbiology. Undergraduate teaching activities are largely undertaken through larger equivalent disciplines at Groote Schuur Hospital and the Medical School of the University of Cape Town to medical and physiotherapy students. Post-graduate teaching is undertaken to M.Phil (Paediatr Pathol), M.Med (in all the pathology disciplines), BSc (hons), MSc and PhD students at UCT as well as to M.Med students at Tygerberg Hospital. Research activities are almost entirely related to laboratory aspects of child health and is undertaken through projects driven by laboratory staff as well as collaborative support to clinical colleagues, mainly in paediatrics and paediatric surgery.

DEPARTMENTAL STATISTICS

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All academic staff are employed by the Provincial Administration of the Western Cape under conditions of service jointly agreed to by the Province and University of Cape Town.

RESEARCH FIELDS

Assoc. Prof. R.O.C. Kaschula
Kaposi Sarcoma; EBV virus; Human Herpes Virus-8; Megacolon; Intestinal Pseudo-Obstruction; Muscular Dystrophy; Progenitors of Nephroblastoma; Childhood Castleman’s Disease
Assoc. Prof. C.C. Sinclair-Smith
Hodgkin’s Disease; EBV Virus; Burkitt Lymphoma; Mitochondrial Myopathy; Hepatitis B Virus Glomerulonephritis

Assoc. Prof. H.E. Henderson
Lipids and Lipoproteins; Inborn Errors of Metabolism; Galactosaemia; Spinal Muscular Atrophy; Cystic Fibrosis; Metachromatic Leucodystrophy; Atherosclerosis

Assoc. Prof. L.R. Purves
PCR Diagnosis of Tuberculosis; Colonic Metabolism in Diarrhoea; Mass Spectrometric Applications in Paediatric Pathology

Assoc. Prof. A.J. Lastovica
Enteric Diseases; Campylobacter and Helicobacter

Dr D.H. Hanslo
Paediatric Infectious Diseases

Dr M.H.G. Shuttleworth
Immunophenotyping & Cytogenetics of Paediatric Leukaemia; Congenital Coagulation Disorders; Von Willebrand Multimers, Paediatric Myelodysplastic Syndromes

Mr M.E. Engel
Kaposi Sarcoma; Hodgkin’s Disease; Diagnostic Molecular Techniques; EBV; HHV-8; Burkitt Lymphoma

Mrs F.M. Leisegang
Molecular biology of HIV; Tuberculosis; Inborn Errors of Metabolism; Lipoprotein Lipase

RESEARCH OUTPUTS

RESEARCH PAPERS & REFEREED ARTICLES


CHAPTERS IN BOOKS


RESEARCH LETTER


CONFERENCE ABSTRACTS

Kaschula, R.O.C. 2000. Osseus Ewing’s Sarcomas seen at Red Cross Children’s Hospital over 35 years. Federation of SA Societies of Pathology, Warmbaths, South Africa.


Kaschula, R.O.C. 2000. An analysis of 32 PNET/Ewing’s sarcoma cases from Red Cross Children’s Hospital, Cape Town, South Africa. XXIII International Congress of International Academy of Pathology. Nagoya, Japan.


Lastovica, A.J. & Engel, M.E. 2000. Campylobacter concisus: pathogen or commensal? Results of a five-year study of paediatric patients in South Africa. 100th Annual American Society for Microbiology meeting in Los Angeles, CA.


CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPED IN RESEARCH

Lastovica, A.J. Nominated to the Editorial Board of the Journal of Clinical Microbiology.

Lastovica, A.J. Invited to be an international scientific advisor to assist in the organization of the 11th International Workshop on Campylobacter, Helicobacter and related organisms, to be held in Freiberg, Germany, Sept, 2001.


Lastovica, A.J. Participation in the Water Research Commission committee on Microbiological protocols for research involving source and treated water. A meeting was held in Pretoria on May 12, 2000.
Lastovica, A.J. & a UWC colleague, Dr Pieter Gouws. Organized a Seminar: Campylobacter 2000 which was held on Aug 19, 2000. The concept is for provision of an open forum of research on Campylobacter that is currently in progress. This one-day Seminar was highly successful, with about 35 delegates participating.

Kaschula, R.O.C. Forensic Autopsy Report to Sydney Harbour Police, Sydney, Australia to resolve interpretation of malicious malnutrition of a child, based upon publications.

Kaschula, R.O.C. Report to Royal Liverpool Children’s Inquiry in respect to retention of autopsy tissues at United Kingdom Children’s Hospitals.
DEPARTMENT OF PAEDIATRIC SURGERY

HEAD OF DEPARTMENT: Professor H. Rode

DEPARTMENTAL CONTACT DETAILS

Postal Address: Department of Paediatric Surgery
Institute of Child Health
Red Cross War Memorial Children’s Hospital
Rondebosch
7700
South Africa
Telephone: SA (21) 658-5012
Fax: SA (21) 685-6632
e-mail: hrode@ich.uct.ac.za

DEPARTMENTAL PROFILE

The department is one of four accredited training centres for career paediatric surgeons and recognised as such by the College of Medicine of South Africa and the Interim South African Medical and Dental Council. The department serves as a regional and referral hospital and is regarded as a national centre in terms of organ transplantation and specialised neurosurgical and cardiothoracic surgical procedures. In addition the department has under its auspices the only dedicated trauma centre for children as well as the Child Accident Prevention Foundation of Southern Africa. An extensive surgical outreach programme was developed to improve the surgical care of children. In the last 21 years more than 38 South African and foreign postgraduate students trained as career paediatric surgeons in the department. Surgery Outreach programmes for higher surgical training has been established with 3 Sub-Saharan and West African countries. Research is being conducted in the department in liver transplantation, burn therapy and common diseases of Africa. Financial support is received from the MRC, Pharmaceutical companies and private donations.

DEPARTMENTAL STATISTICS

<table>
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<tr>
<th>PERMANENT AND LONG TERM CONTRACT STAFF</th>
<th>STUDENTS</th>
</tr>
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<tbody>
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<td>Professor</td>
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RESEARCH FIELDS

PERMANENT STAFF

Professor H Rode
Head of the department; Burn and Nutrition Research; congenital abnormalities; oncology and vascular supply to pelvic structures

Associate Professor A.J.W. Millar
Organ transplantation; gastro-enterology; oncology and endoscopic surgery
Dr RA Brown
Gastro-enterology; endoscopic surgery; constipation and gastro-intestinal polyposis

Dr AB van As
Traumatology, congenital abnormalities and gastro-intestinal diseases

R Albertyn
Research social worker; Paediatric Pain and rehabilitation

J Raad
Principle medical technologist; Manometry and gastro-enterology

N du Toit
Research Social Worker; Child Accident Prevention

P de Wet
Control Medical Technologist; Thermal injury, antiseptics

RESEARCH OUTPUTS

RESEARCH PAPERS AND ARTICLES


CHAPTERS IN BOOKS


LETTERS

DEPARTMENT OF PAEDIATRICS & CHILD HEALTH

HEAD OF DEPARTMENT: Professor DJ Power

DEPARTMENTAL CONTACT DETAILS
Postal address: Department of Paediatrics & Child Health
Red Cross Children's Hospital
Rondebosch
7700
Cape Town
South Africa
Telephone: SA (21) 658-5324
Fax: SA (21) 689-1287
Email: dpower@ich.uct.ac.za

DEPARTMENTAL PROFILE
Research in the fields of paediatrics and child health is carried out under the umbrella of the Institute of Child Health (ICH), is inter-disciplinary and reflects the clinical problems of the wider community. Research focused on infectious diseases, nutrition, immune deficiencies, some organ specific diseases, health systems and health policy for children. This activity is reflected in the Department's annual Research Meeting at which 36 oral and 27 poster presentations were given over two days. The highlights of this year's research have included collaboration with overseas researchers in the fields of tuberculosis and HIV/AIDS at both a clinical and basic science level. This collaboration and the initial results have enabled researchers to obtain major external funding with which to extend overseas collaboration and attract both local and foreign doctoral students to work in our laboratories.

DEPARTMENTAL STATISTICS 2000

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<th>PERMANENT AND LONG TERM CONTRACT STAFF</th>
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Total students:
- Doctoral: 8
- Masters: 51
- Undergraduate: 305
- TOTAL: 364
RESEARCH FIELDS

PERMANENT STAFF

Professor DJ Power
   Head Department of Paediatrics; ambulatory and primary care services

Professor D W Beatty
   Head of Immunology; inherited and acquired immunodeficiencies; infectious diseases

Professor M E Jacobs
   Head Child Health Unit; community paediatrics, child health policy

Professor F Bonnici
   Endocrinology; growth hormone; diabetes; human insulin analogues

Associate Professor G D Hussey
   Infectious diseases; tuberculosis; vitamin A; HIV infections; haemophilus influenzae vaccines

Associate Professor P S Hartley
   Senior Lecturer; haematology; oncology

Associate Professor J D Ireland
   Senior Lecturer; gastroenterology; liver disease; cystic fibrosis

Associate Professor C D Karabus
   Haematology; oncology

Associate Professor M Klein
   Pulmonology; critical care

Associate Professor M D Mann
   Nuclear medicine; diarrhoeal disease

Associate Professor AA Sive
   Senior Lecturer; nutrition; gastroenterology

Associate Professor J Daubenton
   Senior Lecturer, oncology

Associate Professor E G Weinberg
   Allergy; asthma

Associate Professor C Motala
   Senior Lecturer; allergy

Associate Professor D L Woods
   Neonatology; perinatal health education

Dr A Allie
   Senior Lecturer; general pediatrics

Dr A Argent
   Senior Lecturer; critical care

Dr J D Burgess
   Senior Lecturer; HIV infections

Dr S V Delport
   Senior Lecturer; endocrinology; diabetes

Dr L D Henley
   Senior Lecturer; medical ethics; medical social science

Dr G H Moller
   Senior Lecturer; neonatology

Dr A Philotheou
   Senior Lecturer; diabetes; endocrinology

Dr LG von B Reynolds
   Senior Lecturer; pulmonology; muscle disorders, critical care

Dr P Roux
   Senior Lecturer; oncology; bone marrow transplants, HIV

Dr G H Swingler
   Senior Lecturer; ambulatory paediatrics; primary health care

Dr C Adnams
   Senior Lecturer; developmental medicine

Dr M Hann
   Senior Lecturer; neonatology

Dr ATR Westwood
   Senior Lecturer; cystic fibrosis, gastroenterology; ambulatory paediatrics

Dr M Hendricks
   Senior Lecturer; nutrition
Dr M McCulloch  
Senior Lecturer; takayasu's arteritis; infant dialysis; renal and liver transplantations

Dr F Desai  
Lecturer; oncology; haematology

Dr B Eley  
Lecturer; immunology; infectious diseases

Dr D Greenfield  
Lecturer; community neonatology

Dr J Lawrenson  
Lecturer; cardiology

Dr L Linley  
Lecturer; community neonatology

Dr JE Mostert  
Lecturer; ambulatory paediatrics

Dr H M Power  
Lecturer; health informatics

Dr J Stirling  
Lecturer; cardiology

Dr C Thompson  
Lecturer; neurodevelopment; neonates

Dr I Els  
Lecturer, neonatology

Dr M Hatherill  
Lecturer, cardiology

Dr G Riordan  
Lecturer, neurology; epilepsy

Dr SM Kroon  
Lecturer, community neonatology

CONTRACT RESEARCH STAFF

Dr S Anderson  
T.B.-Immunology; genetics

Dr H Zar  
pulmonology; HIV

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


Zar, H.J., Brown, G., Donson, H., Brathwaite, N., Mann, M.D. & Weinberg, E.G. 2000. Spacers made from sealed cold-drink bottles were as effective as conventional spacers in children with acute asthma. Evidence-Based Medicine 5:79.


Non-peer reviewed


Weinberg, E.G. 2000. Allergy to bee stings: A bee sting in an allergic patient could be fatal - assistance is provided to prevent this eventuality. CME August 18(8): 662 – 668.


BOOKS


PUBLISHED CONFERENCE PROCEEDINGS & CONFERENCE ABSTRACTS

Giese, S. 2000. Social assistance for children made vulnerable by HIV/AIDS. Written submission to the National Committee of Inquiry into a Comprehensive Social Security System.


Hann, M. 2000. Low Birthweight Baby Care in the New Millenium. 7th World IAMANEH Conference, Stellenbosch, South Africa.


Hussey, G. 2000. HIV infection and the Child. 7th World IAMANEH conference, Stellenbosch, South Africa.


Irlam, J. 2000. Presentation to the 9th International Ottawa Conference on Medical Education, Cape Town. "Experiences with the Use of Information and Communication Technology (ICT) in a Distance Learning Programme".


THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES

Marco, C. 2000. An evaluation of the impact of the introduction of the district health system on nurses employed in the public primary health care sector in Mitchell's Plein. M.Phil. dissertation (Paediatrics and Child Health), University of Cape Town.


UNIVERSITY PUBLICATIONS AND PUBLICATIONS OF A POPULAR NATURE AND OTHER


Case management guidelines and training materials.


UNPUBLISHED RESEARCH/TECHNICAL/POLICY DOCUMENTS

Child Health Policy Institute. 2000. Social assistance policy for children with disabilities and chronic illness in South Africa. Child Health Policy Institute, University of Cape Town: Children's Rights project, Community Law Centre, University of the Western Cape.
Hann, M. 2000. Policy and guidelines on Kangaroo Mother Care for the Provincial Administration of the Western Cape Province.
Irlam, J. 2000. Article in HST Update Issue 50 (March): Experiences with the Use of Information and Communication Technology (ICT) in a Distance Education Programme.
Proudlock, P. 2000. Policy and Legislation Framework - Children with disabilities and chronic illnesses: Their right to social security. Child Health Policy Institute, UCT.

LETTERS

DEPARTMENT OF PHARMACOLOGY
(South African Medical Research Council Traditional Medicines Research Unit)
(World Health Organization Collaborating Centre for Drug Policy)

HEAD OF DEPARTMENT: Professor Peter I Folb

DEPARTMENTAL CONTACT DETAILS
Postal Address: Department of Pharmacology
University of Cape Town
Medical School
K45, Old Main Building
Groote Schuur Hospital
Observatory, 7925
South Africa
Telephone: SA (21) 406-6286
Fax: SA (21) 448-1989
email: pfolb@uctgsh1.uct.ac.za

DEPARTMENTAL PROFILE

Research in the department covers basic, applied and clinical pharmacology, and the department participates in a number of regional, national, continental (African) and international programmes.

The World Health Organization Collaborating Centre for Drug Policy, based in the department and functioning in conjunction with the School of Pharmacy of the University of the Western Cape, aims to spread information and to develop and promote systems and research that support rational and safe use of essential medicines by health professionals. This includes traditional medicines. Systems for monitoring safety are developed and drug toxicity countrywide is monitored. Collaboration with other developing countries is undertaken for the training of research workers and of teachers of pharmacology.

The department conducts a collaborative research programme, in conjunction with the Medical Research Council, into the early development of new antituberculosis combination drugs. New drug assay methods have been developed and clinical development of novel antituberculosis drugs is supported by clinical trials in patients and in healthy normal volunteers. In collaboration with the World Health Organization, novel antimalarial drugs are investigated as part of WHO international research programmes. A focus of the research of the department is to investigate the nature of antimalarial drug resistance.

Research is undertaken into the discovery of new antimalarial drugs and understanding the mechanisms of malaria parasite resistance to drugs (chloroquine, mefloquine and pyronaridine). Activity is tested in vitro of concentrated extracts of more than 100 plants against approximately 15 strains of Plasmodium falciparum.

South African Medical Research Council Traditional Medicines Research Unit: The MRC research unit, in conjunction with the University of the Western Cape School of Pharmacy, conducts, inter alia, laboratory research into activities of traditional medicines and their safety, with special reference to antimalarial agents, antivirals, and antituberculosis agents, co-operation with traditional healers and researchers, new drug registration, information and the provision of reference materials. A computerised database is being developed for use by researchers, traditional healers, other health professionals, and the public.

The National Adverse Drug Event Monitoring Centre based, in the department monitors adverse effects of medicines country-wide, and it aims to promote the safe use of medicines. The unit collects reports of apparent harm caused by drugs and vaccines, evaluates them and advises the Medicines Control Council, the national drug regulatory authority.
DEPARTMENTAL STATISTICS 2000

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<th>PERMANENT AND LONG TERM CONTRACT STAFF</th>
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RESEARCH FIELDS

P.I. Folb
clinical and experimental pharmacology; scientific basis of drug development; toxicology and drug safety, malaria

P.J. Smith
mechanisms of antimalarial drug resistance; pharmacokinetics of anti-TB drugs; isolation of novel drugs from traditional medicines; development of new drug assays

A. Robins
Psychopharmacology; Neuroleptic Malignant Syndrome; Catatonia; Antidepressants; Medical Ethics; Medical History; Evolution of Human Skin Pigmentation

K.I. Barnes
Malaria: treatment policy development and implementation, field research on artemisinin combination therapies; educational interventions in rational drug use

H. McIlleron
tuberculosis drug kinetics in patients; tuberculosis drug formulation quality and bioequivalence

M. Blockman
Rational and cost-effective prescribing of medicines; drug utilisation review; adverse drug reaction monitoring; drug policy and regulation

W.E. Campbell
Phytochemical studies on indigenous Amaryllidaceae species; structural studies on active compounds isolated from traditional medicinal plants

U. Mehta
Pharmacovigilance, vaccines safety, drug regulation, adverse drug reaction monitoring

G. Gabriels
tuberculosis, pharmacokinetics

A. Evans
malaria, drug assay development

H. Hoppe
malaria

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


**BOOKS**


**CHAPTERS IN BOOKS**


**CONFERENCE ABSTRACTS**


Folb, P.I. & Gomes, M. 2000. 11th International Conference on Pharmaceutical Medicine Berlin/Germany. Clinical trials in countries where certain drugs are not available.

THESES PASSED FOR HIGHER DEGREES


UNIVERSITY AND OTHER PUBLICATIONS

Medicines Information Centre. 2000. Which drug may be used to treat scabies in pregnancy. CME 18(1):66-68.
Medicines Information Centre. 2000. Which drugs are more likely to cause oesophagitis? CME 18(1):66-68.
TECHNICAL REPORTS

McIlerson, H., Smith, P., Harwarden, D., Gabriels, G. & Fourie, B. 2000. Bioavailability study comparing Rifater Combination Dispersable Tablets (Rifampicin 60mg, Isoniazid 30 mg and Pyrazinamide 150mg) as a single dose to equivalent doses of NORISTAN-ISONIAZID®, ROZIDE and RIFADIN® as a single dose, in healthy volunteers. Department of Pharmacology, University of Cape Town.

McIlerson, H., Smith, P., Harwarden, D., Gabriels, G. & Fourie, B. 2000. Bioavailability study comparing Rifenah Combination Tablets (Rifampicin 60mg and Isoniazid 30mg) as a single dose to equivalent doses of NORISTAN-ISONIAZID®, and RIFADIN® as a single dose, in healthy volunteers. Department of Pharmacology, University of Cape Town.

McIlerson, H., Smith, P., Gabriels, G. & Fourie, B. 2000. The bioavailability and bioequivalence of Rifampicin, Isoniazid and Pyrazinamide as a single dose in a fixed dose combination formulation, Rimcure 3-FDC Intermittent, compared to equivalent doses of single drug reference preparations of the three drugs. Department of Pharmacology, University of Cape Town.

McIlerson, H., Smith, P., Gabriels, G. & Fourie, B. 2000. The bioavailability and bioequivalence of Rifampicin and Isoniazid as a single dose in a fixed dose combination formulation, Rimactazid 150/75, compared to equivalent doses of single drug reference preparations of the two drugs. Department of Pharmacology, University of Cape Town.

McIlerson, H., Smith, P., Gabriels, G. & Fourie, B. 2000. The bioavailability and bioequivalence of Rifampicin and Isoniazid as a single dose in a fixed dose combination formulation, Rimactazid 150/150, compared to equivalent doses of single drug reference preparations of the two drugs. Department of Pharmacology, University of Cape Town.

McIlerson, H., Smith, P., Gabriels, G. & Fourie, B. 2000. Bioavailability study comparing Rifater Combination Dispersible Tablet (Rifampicin 60 mg, Isoniazid 30 mg and Pyrazinamide 150 mg) as a single dose to equivalent doses of Norstan-Isoniazid®, Rozide® and Rifadin® as a single dose, in healthy volunteers. Department of Pharmacology, University of Cape Town.

Gomes, M., Ribeiro, I. & Folb, P.I. 2000. Report to National drug regulatory authorities of the United States (Food and Drug Administration), United Kingdom (Medicine Control Agency), and Switzerland (Intercantonal office for the control of medicines: Development of artesunate for rectal administration for life-threatening malaria and to work towards bringing artesunate to submission for regulatory approval by authorities of the United States (Food and Drug Administration), United Kingdom (Medicines Control Agency), and Switzerland (Intercantonal Office for the Control of Medicines); and implementation of the drug with a view to achieving a 40% reduction in morality from severe malaria in several malaria-prevalent countries of the world (Ghana, Nigeria, Tanzania and Bangladesh, in the forst instance); (27 volumes, and hyperlinked CD Rom). Department of Pharmacology, University of Cape Town.

CONSULTANCIES AND OTHER RESEARCH AND SPECIAL APPOINTMENTS

Barnes, K.I. Member of National Malaria Advisory Group Department of Health, and of the Sub-committee for Chemo-prophylaxis and Therapy
Member of the National Malaria Collaborative Forum.
Member of South Africa Malaria Advisory Group, and its sub-committee on Chemoprophylaxis and Therapy. Department of Health.
Drug Information Association, USA: Member of the Steering Committee for International Development (representative for Sub-Saharan Africa).

Orrell, C. Cross-site facilitator in Rational Drug Use for the Initiative for Sub-district Support, part of Health Systems Trust.


Blockman, M. Chair: Editorial Expert Committee; sub-committee of the National Essential Drugs List Committee; Department of National Health.

Gibbon, C. Member: Editorial Expert Committee; Department of Health; edited the publication 'Standard South African Standard Treatment Guidelines and Essential Drugs List for Hospital Level, 2000 Edition (Published by Department of Health).

Matsabisa, G. serves on the complementary medicines committee of the Medicines Control Council.

Mehta, U. & Folb, P.I. Department of Pharmacology have been designated as the international training centre on Adverse Events following Immunization as part of the Global Training Network of the World Health Organisation (WHO).

Folb, P.I. Director: World Health Organisation Collaborating Centre for Drug Policy at the University of Cape Town and the University of the Western Cape.

Member: Steering committee of Medecins sans Frontieres initiative for scientific development of novel drugs for neglected diseases in the developing world.

Member: World Health Organization Strategic Advisory Group of Experts for vaccines policy worldwide (includes vaccine safety, novel vaccine development, worldwide eradication programmes, vaccine policy issues of international importance.)

Chair: World Health Organization task force for research into severe malaria.

Chair: World Health Organization task force for development of artesunate in severe, life-threatening malaria.

Member: World Health Organization task force for research into malaria drug resistance and policies.

Chair: World Health Organization global advisory committee for vaccine safety worldwide.

In addition, in 2000 Professor Folb conducted country review visits on behalf of the World Health Organization to deal variably with issues of medicines and vaccine safety, new drug development, research capability training and strengthening, and establishment of clinical research centres in several countries. These countries were Poland, Tanzania and Armenia (the latter in vaccine safety training, together with Dr U Metha, for the countries of the Former Soviet Union).

In 2000, the Department of Arts, Culture, Science and Technology (DACST) awarded 6.7 million rand to a consortium to conduct research aimed at discovery of novel antimalarial agents from traditional medicinal sources. The Medical Research Council, Council for Scientific and Industrial Research, National Botanical Institutes, University of Pretoria and University of Cape Town are the participating members of the consortium. Professor P Folb was designated project leader of the research programme.
DEPARTMENT OF PHYSIOTHERAPY

Head of Department – Mrs M J Futter

DEPARTMENTAL CONTACT DETAILS

Postal address: Department of Physiotherapy
Medical School
Anzio Road
Observatory
7925
South Africa
Telephone: SA (21) 406-6402
Fax: SA (21) 448-8157
E-mail: mjfutter@uctsh1.uct.ac.za

DEPARTMENTAL PROFILE

The Department caters for 167 undergraduate and 20 postgraduate students. It has suffered severely from the reduction in staffing imposed by the Provincial Administration. Several services have had to be cut whilst others have been curtailed. However, the upper echelons of the staffing remain unchanged and this has been essential to maintaining staff morale and the continued functioning of the services of the Department. Services that have been frozen or abolished in the Community Health Centres utilised for undergraduate teaching are now being run entirely by students of this Department. This has meant employing a large number of part-time clinical supervisors to ensure that the undergraduate education continues at all levels of health care and to ensure that the management the clients receive is of a high standard. The Allied Health Sciences and Nursing departments held a very successful second Research Colloquium at the end of the year. Areas where capacity of the staff need to be improved were identified and future workshops will be held to address these aspects. As the Dean has made money available for these Departments to finish research projects that have been waiting for grants and seed moneys for new projects there should be a number of projects that will be completed during 2001.

DEPARTMENTAL STATISTICS 2000

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<th>PERMANENT AND LONG TERM CONTRACT STAFF</th>
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RESEARCH FIELDS

PERMANENT STAFF

Mrs M J Futter
Head of Department; Curriculum development; examination reliability and validity & Recruitment of Black students from schools previously administered by the DET

Associate Professor P. Bowerbank
Assessment of the organisation forces for change and the position and role of professional women in health care organisation; the development of multidisciplinary learning experience for undergraduate health professionals; the strategic development of a health care organisation: a longitudinal study of the South African Physiotherapy Profession
Mrs J.A Fourie
Senior lecturer: Reconciliation in South Africa; the indicators for survivors, perpetrators and bystanders

Ms S. Maart
Lecturer joined staff in November; Women’s health; the educational process of clinical supervision

Ms J. Hughes
Lecturer joined staff in July; Registering for Masters next year

Ms G. Mji
Lecturer, Writing up a Masters thesis; Community-based rehabilitation facilities in Africa; rehabilitation needs homeless people living in Cape Town

Ms H. Mashego
Lecturer, Registered for Masters in Public Health (UWC)

Mr S. Sifundza
Junior Research Assistant, Registered for MPhil in Public Health (UCT); The level of functional independence and knowledge of disease in Diabetics with lower limb amputations attending the GSH Rehabilitation Unit

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CHAPTERS IN BOOKS


CONFERENCE ABSTRACTS


UNPUBLISHED UNDERGRADUATE RESEARCH


Dorsett, R. & Berenisco, M. 2000. The quality of life and disease awareness in Diabetic patients who have undergone below knee amputation. Department of Physiotherapy, University of Cape Town.

TECHNICAL/POLICY DOCUMENTS

DEPARTMENT OF PLASTIC, RECONSTRUCTIVE & MAXILLO-FACIAL SURGERY

HEAD OF DEPARTMENT - Professor D A Hudson

DEPARTMENT CONTACT DETAILS

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University of Cape Town
Medical school
Groote Schuur Hospital
H53 Old Main Building
Observatory
7925
South Africa
Telephone:  SA (21) 404-3426 / 406-6415
Fax:    SA (21) 448-6461
Email:    plastics@uctgsh1.uct.ac.za

DEPARTMENTAL STATISTICS 2000

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STUDENTS

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RESEARCH FIELDS

Associate Professor D A Hudson
Hand trauma, breast surgery, skin tumours
Dr D Lazarus
Cleft lips & palate

RESEARCH PAPERS & REFERED ARTICLES

DEPARTMENT OF PRIMARY HEALTH CARE

HEAD OF DEPARTMENT - Professor Dumo Baqwa

DEPARTMENT CONTACT DETAILS
Postal Address: J Floor, Old Groote Schuur Hospital
Observatory
7925
South Africa
Telephone: SA (21) 406-6510
Fax: SA (21) 406-6667
Email: adielah@uctgsh1.uct.ac.za

DEPARTMENTAL PROFILE

The Department of Primary Health Care is extensively involved in multidisciplinary community-based
teaching with a strong focus on primary care training. It successfully runs an innovative first year
foundation programme for medical, occupational therapy and physiotherapy students. It co-jointly runs
a Primary Care module with the third year Clinical Methods course offered in the Department of
Medicine. Other programmes include the 4th year Primary Health Care / Family Medicine block run
jointly with the Department of Public Health, the 6th year Primary Health Care / Family Medicine block
and the 3 year M.Phil. in Primary Health Care / Family Medicine.

The department has established and maintains international and national collaborative links with similar
departments in tertiary institutions in the Western Cape, UK, Belgium and the United States to enhance
its research and teaching capacity in the above areas.

The Department of Primary Health Care places its focus on research on a set of objectives that embraces
the Comprehensive Primary Health Care Approach.

1. To develop capacity in Health Systems Research at all levels in under- and post-graduate education
and training as well as to contribute to Health Systems Research skills in health managers
responsible for Primary Health Care development.
2. To engage in further health policy work and to pay close attention to implementation strategies.
3. To examine the effectiveness and efficiency of primary care interventions – the point of entry into
formal health care. Evidence-based medicine would be a particular area of focus.
4. To explore the framework of district-based health care. This includes:
   • Informatics and health information systems
   • Integrated health involving:
     ▪ Investigation of a balanced and effective incorporation of the types of care
       (curative, preventive, promotive, protective and rehabilitative care)
     ▪ Multi-disciplinary teaching format with its impact on team building in service
       provision
     ▪ Public and private health sector mix that would optimise health outcomes
   ▪ Investigating aspects of social, community-based and home care with a view to analyse the
     interface between formal and informal health care

5. Medical Education including:
   • Curriculum development
   • Teaching methodologies
   • Problem-based and problem-oriented learning
   • Small group teaching
   • Raising the significance of the populations-based perspective for education and training.
DEPARTMENTAL STATISTICS

PERMANENT AND LONG TERM CONTRACT STAFF

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HONORARY STAFF

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</table>

RESEARCH FIELDS

PERMANENT STAFF

Professor Dumo Baqwa  
Head of Department
Ms Melanie Alperstein  
Site Development Co-ordinator
Ms Daleen Baker  
Site Development Co-ordinator
Dr Graham Bresick  
Lecturer
Ms Cecily Camara  
Lecturer
Dr Elma de Vries  
Lecturer
Dr Beverley Schweitzer  
Lecturer
Dr Judith van Heerden  
Lecturer
Ms Lauraine Vivian  
Lecturer
Ms Adielah van der Schyff  
Secretary
Mr Gavin Weir  
Lecturer

CONTRACT STAFF

Ms Mercia Arendse  
Site Facilitator
Ms Linda Mgqamqo  
Site Facilitator
Ms Spectorine Mtshofeni  
Site Facilitator
Ms Lorna Olckers  
Site Facilitator
Dr Laurel Baldwin-Ragaven  
Lecturer
Dr Stan Levenstein  
Lecturer
Dr Sid Mobbs  
Lecturer
Dr Miriam Navsa  
Lecturer
Dr Stephen van Houten  
Lecturer
DISTINGUISHED VISITORS

Ms Vari Drennan  
University College London Medical School, London, UK; education and continuing professional development of nurses working in primary health care in South Africa

Dr Irwin Nazareth  
University College London Medical School, London, UK; Epidemiology of Clinical presentations in a South African Primary care setting

Dr Tim Stanton  
Director of Public Service Medical Scholars, Stanford University Medical School, USA; Service learning in medical education

Dr Amar Jesani  
Director of Centre for Enquiry into Health and Allied Themes (CEHAT), University of Mumbai, India; Social Science research in health and health services

Dr Jumana Odeh-Issawi  
Director of the Palestinian Happy Child Centre in Jerusalem; Consultant to Oxfam, UNICEF and Save the Children (USA); Human Rights and the Rights of the Child

Dr Jack Bryant  
President of the Council for International Organisation of Medical Sciences (CIOMS), WHO, Geneva; Primary Health Care in medical education in developing countries

Dr Len Rubenstein  
Head of Physicians for Human Rights (USA); Health and Human Rights

RESEARCH ASSOCIATES

Dr EM Mankazana  
Health Development Institute

Dr S Yasin Harneker  
Health Development Institute

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


BOOKS AND CHAPTERS IN BOOKS


CONFERENCE PAPERS AND PRESENTATIONS TO THE PUBLIC


UNPUBLISHED RESEARCH/TECHNICAL/POLICY DOCUMENTS

Camara, C. 2000. Evaluation of graduates and current final year students’ experiences of the medical undergraduate programme.

THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES

DEPARTMENT OF PSYCHIATRY AND MENTAL HEALTH

HEAD OF DEPARTMENT – Professor Brian Robertson

DEPARTMENTAL CONTACT DETAILS
Postal Address: Department of Psychiatry
University of Cape Town
Groote Schuur Hospital
Observatory
7925
South Africa
Telephone: SA (21) 404-2164/447-5450
Fax: SA (21) 448-8158
e-mail: bh@curie.uct.ac.za

DEPARTMENTAL PROFILE
The Department of Psychiatry and Mental Health continues to consolidate and expand its research efforts in three main domains: mental health services research, adolescent health, and infant mental health. Much of the research is of an applied nature and is paralleled by involvement in policy initiatives on the national and international levels. The international involvement is facilitated by the fact that the department is a World Health Organisation (WHO) Collaborating Centre for Research and Training in Mental Health; the only World Federation for Mental Health Collaborating Centre for Mental Health in Africa; and a leading participant in two European Commission-funded Concerted Action Projects which involve partners from several African and European countries.

So far as mental health services research is concerned, plans have been finalised for an evaluation of the Empilweni Project, which is a community-based mental health project staffed by lay counsellors in Khayalitsha. Work is in progress for a WHO contract to develop evidence-based mental health service guidelines for use by countries at all levels of development. The adolescent health research has two main foci: analysis of cross-sectional and longitudinal data sets involving risk behaviour by about 20,000 school students in Cape Town, Durban and three rural communities; and the development and evaluation of intervention projects that aim to reduce the extent of risk behaviour by high-school students. Also, consultancies have been completed for the development of national policy guidelines for the national Department of Health for (a) child and adolescent mental health and (b) adolescent and youth health. There are two projects involving infant mental health. One is a prospective randomised control trial to assess the impact on infant development of an intervention to reduce postnatal depression. The other documents the effects of prenatal alcohol ingestion on infant growth and behaviour and mother-infant interaction.

Finally, a highlight of the year was the establishment of a Centre for the Study of Violence and Mental Health. Besides conducting research, this Centre will offer services such as consultation, training, project evaluation, networking, referral, policy development and advocacy.

DEPARTMENTAL STATISTICS 2000

PERMANENT AND LONG TERM CONTRACT STAFF

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<th>Position</th>
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HONORARY STAFF

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RESEARCH FIELDS

PERMANENT STAFF

Professor Brian Robertson
Head of Department- child and adolescent psychiatric epidemiology; impact of violence on children; development of community mental health services; integration of mental health services at primary care level; youthful perpetrators of violent crime; cultural psychiatry and indigenous healers

Professor Chris Molteno
infant mental health; foetal alcohol syndrome; psychopathology in children with mental handicap; the relationship between birth asphyxia and developmental disability

Associate Professor Tuviah Zabow
Deputy Head of Department; quality assurance and accreditation in psychiatry; the management of impaired medical practitioners and students; mental health legislation

Associate Professor Alan Flisher
adolescent risk behaviour; epidemiology of suicide; mental health services research; epidemiology of psychiatric disorder in children and adolescents

Dr Astrid Berg
Senior Lecturer; effects of maternal iron deficiency anaemia on infants

Mr Andrew Carlyle
Senior Lecturer; psychological aspects of infertility

Dr Charles Malcolm
Senior Lecturer; post-conflict models and alternatives for community rebuilding and reconciliation; leadership within contexts of post-conflict change and globalization; youth offender risk and resilience; professional ethics; the organization of violence and the status of perpetrators

Dr Don Wilson
Senior Lecturer; social phobia; panic states; substance misuse

Dr Carl Ziervogel
Senior Lecturer; alcohol use in school children

CONTRACT RESEARCH STAFF

Dr Ian Lockhart
Senior Scientific Officer; development of mental health service guidelines

Ms Wanjiru Mukoma
Scientific Officer; evaluation of school-based AIDS prevention programmes

Mr Chrisostomos Zissis
Senior Research Officer; community based mental health care, evaluation and provision of innovative and appropriate mental health services in sub-Saharan Africa, effective models of consultation and training, psychological aspects of exposure and perpetration of violence

POST-DOCTORAL RESEARCH FELLOW

Dr Catherine Ward
Psychosocial effects of exposure to trauma; prevention of post-traumatic stress disorder and other negative consequences of exposure to trauma; psychosocial aspects of disaster management

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CHAPTERS IN BOOKS


CONFERENCE ABSTRACTS

Flisher, A.J. 2000. Interventing through school systems. 9th International Conference on Treatment of Addictive Behaviours, Cape Town (invited plenary address).


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Zissis, C. 2000. Service Provision and Mental Health Promotion: The effectiveness of a community-based mental health project situated in the peri-urban settlement of Khayelitsha, South Africa. The Inaugural World Conference: The Promotion of Mental Health and Prevention of Mental and Behavioural Disorders, Atlanta, GA, U.S.A.


Zabow, T. 2000. Follow up study of insanity-acquittees as psychiatric patients: protective detention, rehabilitation or recidivism risk? 13th World Congress on Medical Law, Helsinki, Finland.


DISSERTATION PASSED FOR HIGHER DEGREE


UNIVERSITY PUBLICATIONS AND PUBLICATIONS OF A POPULAR NATURE


CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPED IN RESEARCH

Professor Brian Robertson
Consultant, National Directorate: Mental Health and Substance Abuse for the development of Policy Guidelines for Child and Youth Mental Health
Director, Centre for the Study of Violence and Mental Health, Department of Psychiatry, University of Cape Town
Member, Editorial Board of the Southern African Journal of child and Adolescent Mental Health
Member, Evaluation Panel of the Mental Health and Substance Abuse Thrust of the Medical Research Council
Mental Health Consultant, Medical Care Development International, Lesotho Health Sector Reform Study

Associate Professor Tuviah Zabow
Consultant, Department of Health Task Team, Mental Health Care Bill
Consultant, Medical And Dental Board of the Health Professions Council of South Africa, Impaired Doctors and Students

Associate Professor Alan Flisher
Consultant, National Directorate: Child and Youth Health for the development of Policy Guidelines in Adolescent and Youth Health
Consultant, National Directorate: Mental Health and Substance Abuse for the development of Policy Guidelines for Child and Youth Mental Health
Consultant, World Health Organisation (WHO), to develop evidence-based guidelines on mental health service delivery
Delegate, International Experts Meeting and Research Meeting of the National Adolescent-Friendly Clinic Initiative (NAFCI), Johannesburg
Editor, Southern African Journal of Child and Adolescent Mental Health
Member, Editorial Advisory Board, African Journal of Substance Abuse
Member, Editorial Board, South African Journal of Psychiatry
Member, International Steering Committee of the European Commission-funded Adolescent Reproductive Health Network
Member, Provincial Council, Planned Parenthood Association of South Africa (Western Cape)
Member, Review Panel, Medical Research Council
Member, Youth AIDS Project Board of Advisors
Temporary Advisor, WHO and United Nations Children’s Fund (UNICEF), for the project “Programming for Adolescent Health and Development: What Should We Measure and How”
Dr Charles Malcolm  
Post-Doctoral Research Associate, Solomon Asch Centre for the Study of Conflict, University of Pennsylvania, Philadelphia  
Consultant, National Institute for Criminal Rehabilitation and Offending (NICRO)  
Affiliate, Centre of Investigative Psychology, Rhodes University, Grahamstown.

Mr Chris Zissis  
Facilitator (with Cathy Ward), Bonnytoun Place of Safety, Support Consultation and Training Programme: January - November 2000.  
Participant member of the Africa Region Meeting on Analytical Studies on Mental Health Policy and Services, International Consortium for Mental Health Policy and Services.
DEPARTMENT OF PUBLIC HEALTH  
(Including the Health Economics Unit, the Occupational and Environmental Health Research Unit, and the Women’s Health Research Unit)

HEAD OF DEPARTMENT - Professor Jonny Myers

DEPARTMENTAL CONTACT DETAILS
Postal address: Department of Public Health
Health Sciences Faculty
Anzio Road
Observatory
7925
South Africa
Telephone: SA (21) 406-6300/6306
Fax: SA (21) 406-6163
e-mail: dotm@anat.uct.ac.za
web-page: http://www.uct.ac.za/depts/cmh/chealth.htm

DEPARTMENTAL PROFILE
The Department of Public Health aims to study the health of the population and measures to improve health, by undertaking research in the following areas:
• primary health care (Mamre and Zibonele projects);
• epidemiology, vital statistics, surveillance and communicable diseases – especially HIV/AIDS;
• health economics and policy;
• occupational and environmental health, and
• women’s health.

These studies involve multidisciplinary expertise including epidemiology, biostatistics, social and behavioural sciences, health economics, management and policy analysis, and clinical decision-making. There is collaboration with UCT Departments, particularly the Department of Primary Health Care, SHAWCO, and with other research and service organisations, both nationally and internationally-appropriate research is conducted in a community participatory manner.

DEPARTMENTAL STATISTICS 2000

PERMANENT AND LONG TERM CONTRACT STAFF

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<tr>
<th>UNIVERSITY STAFF</th>
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<th>JMS STAFF</th>
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RESEARCH FIELDS

PERMANENT STAFF

Professor Jonny Myers
Head of Department, Director, Occupational and Environmental Health Research Unit; Occupational health, epidemiology

Associate Professor Margaret Hoffman
Director, Women’s Health Research Unit; Women’s and reproductive health; community based research/projects

Associate Professor Leslie London
Associate Director: Occupational and environmental health research unit, Occupational and environmental health; pesticide policy and safety; AIDS prevention and control; primary health care service development; human rights

Associate Professor Diane McIntyre
Director: Health Economics Unit; Health economics, health care financing, health expenditure; resource allocation; equity and health

Associate Professor Mary-Lou Thompson
Biostatistics; occupational and environmental health; women’s health

Dr Nicol Coetzee
Prevention and control of communicable diseases; epidemiology methodology; health systems research; health informatics

Associate Professor Rodney Ehrlich
Asthma, occupational and childhood; Lead: occupational effects; Lead effects, regulation; High risk work: isocyanates, construction, asbestos; Tobacco: disease trends, environmental tobacco smoke; Medical surveillance; compensation policy

Mr Rauf Sayed
Biostatistical Support; birth defects surveillance; analysis of mortality and health; health information studies

Dr Helen de Pinho
Oliver Tambo fellowship co-ordinator; Health Management; Medical education

CONTRACT RESEARCH STAFF

Mr David Bourne
birth defects surveillance; health informatics; vital statistics

Dr Mohamed Jeebhay
occupational allergy and asthma; exposure assessment methods for bioaerosols (grain, storage pests, seafood); occupational health of mineworkers and foodworkers; occupational health services; health and safety policy and legislation

Ms Spindele Magwaza
Quality control; STD services; women’s health; violence

Ms Cathy Mathews
HIV prevention; health systems research; women’s health

Dr Diane Cooper
Associate Director: Women’s Health Research Unit - women’s and reproductive health; social determinants of women’s health; breast cancer; cervical cancer and contraception

Mr Stephen Thomas
Health economics and financing; evaluation of health care reform

Ms Veloshnee Govender
Health economics

Ms Andrea Rother
Pesticide policy research
Mr Aqiel Dalvie
occupational and environmental health
Ms Chantelle Henn
occupational and environmental health
Ms Edina Sinanovic
health economics
Ms Charlotte Muheki
health economics
Dr Jennifer Moodley
women’s health research
Ms Alana de Kock
HIV/STD research
Ms Motlagonang Maruping
Pesticides and health research
Mr Joseph Molekwa
occupational allergy and asthma
Ms Phyllis Orner
Women’s health research

DISTINGUISHED VISITORS

Professor L Rosenberg
Slone Epidemiology Unit, Boston University, United States of America
Dean Merson
School of Public Health, Yale University
Professor C Normand
London School of Hygiene and Tropical Medicine
Professor A Mills
London School of Hygiene and Tropical Medicine
Professor Gavin Mooney
University of Sydney
Professor Samuel Shapiro
Slone Epidemiology Unit, Boston University, United States of America
Professory Lesley Doyal
School for Policy Studies, University of Bristol, United Kingdom
Professor Sally Guttmacher
Department of Health Studies, New York University

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CHAPTERS IN BOOKS


THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES


UNIVERSITY PUBLICATIONS AND PUBLICATIONS OF A POPULAR NATURE


CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPED IN RESEARCH

Professor Jonny Myers was appointed to the National Advisory Council on Occupational Health by the Minister of Labour. He was also appointed as an Advisor to the Compensation Commissioner (COIDA) on occupational diseases. He was elected Chairperson of the Division of Occupational Medicine of the College of Public health Medicine of the Colleges of Medicine of South Africa. He is a member of the Scientific Committee for the 8th International Symposium of Neurobeh journal Methods and Effects in Occupational and Environmental Health. He facilitated the review of the strategic plan of the Free State Department of Health in 2000. He advised the legal representative of environmental groupings on issues related to SASOL adding organic manganese (MMT) into petrol in October 2000.

Associate Professor Leslie London is a Board Member for the Trauma Centre for Survivors of Violence and Torture, Cape Town and the of the Health Systems Trust, Durban. He was nominated to the Interim National Research Ethics Committee of the Department of Health in 2000 and also serves as Vice-chairperson of the Advisory Committee on Human Rights, Ethics and Professional Practice for the Medical and Dental Board of the Health Professions Council of South Africa. He is a member of the Public Advisory Panel on Responsible Care to the Chemical and Allied Industries Association (CAIA), and serves as a consultant to Pesticides Research Group at the National Centre for Occupational and Environmental Health, to the AIDS Law Project in Johannesburg in cases involving discrimination against people with HIV, and as an International Medical Advisor to the Samhavna Clinic, Bhopal, India. Associate Professor London also serves on the South African Liaison Committee for the University of Michigan Fogarty Project.

Associate Professor Margaret Hoffman is a member of the Western Cape Reproductive Health Advisory Committee and a member of the Executive Committee Planned Parenthood Association of South Africa Western Cape Region Branch. Is a committee member of the Medical Research Council, Evaluation panel for the Women’s Health. An Editorial Advisory Board Member for the African Journal of Reproductive Health and a member of the Joint Primary Health Care Programme Trust.

Dr Nicol Coetzee serves on the Barrier Methods (HIV/AIDS Prevention) Task Force, National Department of Health; the Editorial Advisory Board for the Journal of Epidemiology and Community Health; and the ad hoc Ministerial Advisory Committee (Western Cape) on HIV prevention (Mother-to-child transmission and post-rape prophylaxis).

Mr David Bourne is a member of the National Health Information System Committee of the Department of Health , Western Cape. He is a member of the International Standards Organization Technical Committee on Health, Working Group 3, Health Concept Representation, and the SA Bureau of Standards subcommittee SC71D on Health Informatics. He is a consultant to the MRC’s Burden of Disease Unit and Health Informatics R&D group, and a member of the International Clearinghouse on Birth Defects Monitoring Systems.
Dr Diane Cooper is a member of the Advisory Committee appointed by the Department of National Health to formulate a framework and guidelines for contraceptive services in South Africa; a member of the International Review Committee, Global Action Plan, World Conference on Breast Cancer, Kingston, Canada. Is a member of the Planned Parenthood Association’s Community based Reproductive Health Programme Advisory Committee in the Western Cape. Is a Trustee on the Board of the Participatory Primary Health Care Programme, a European Union funded non-Governmental community-based health initiative.

Dr Mohamed Jeebhay has been appointed as consultant to the research and development team of "Soul City - Series 6", the national television and radio health promotion programme, which will focus on work-related asthma as one of its major themes.
DEPARTMENT OF RADIATION ONCOLOGY

HEAD OF DEPARTMENT - Professor I D Werner

DEPARTMENT CONTACT DETAILS
Postal address: Department of Radiation Oncology
              Groote Schuur Hospital & University of Cape Town
              Observatory 7925
              South Africa
Telephone: SA (21) 404-4263/5
Fax: SA (21) 404-5259
e-mail: idw@curie.uct.ac.za

DEPARTMENTAL PROFILE
1. The Department of Radiation Oncology provides the following services:
   1.1 Investigation, management and treatment of all forms of malignant disease referred from within
       Groote Schuur Hospital, other academic hospitals and the private medical community both
       within the borders of the country and from neighbouring countries.
   1.2 Participation in drug-related clinical studies, both national and international.
   1.3 Maintenance of cancer registries monitoring cancer incidences and epidemiological
       characteristics.
   1.4 National referral treatment centre for retinoblastoma and ocular malignant melanoma
2. Provision of cancer services to the satellite academic departments of Provincial Hospital, Port
   Elizabeth and Frere Hospital, East London.
3. Development of national referral centre for proton and neutron beam radiotherapy in conjunction
   with the Department of Radiation Oncology, Tygerberg Hospital, University of Stellenbosch and
   the National Accelerator Centre, Faure.
   Development of stereo-photogrammetric patient positioning system for the delivery of proton
   therapy beams in collaboration with Departments of Engineering and Land Surveying at UCT.
4. Teaching of undergraduate medical courses and provisional of post graduate specialists training
   courses. Pre and post-diplomate instruction to radiographers and post-diplomate courses to
   nurses. Full training in Radiobiology from under-graduate to honours, masters and doctoral
   level.
5. Provision of a comprehensive clinical radiobiological research facility.

DEPARTMENTAL STATISTICS 2000

PERMANENT AND LONG TERM CONTRACT STAFF

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<tr>
<th>JOINT STAFF (UCT/PAWC)</th>
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<tr>
<td>Professor of Radiation Oncology</td>
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JMS STAFF

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HONORARY STAFF

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STUDENTS

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RESEARCH FIELDS

PERMANENT STAFF

Professor Dudley Werner
Chief Specialist Radiation Oncology & Head of Department; Breast Cancer/Paediatric Malignancies

Professor Raymond Abratt
Professor of Radiation Oncology, Principal Specialist & Senior Lecturer; Lung Cancer; Male Genito-urinary Tract Cancer

Assoc./Professor Gerry Blekkenhorst
Associate Professor, Senior Lecturer and Section Head of Radiobiology; Medical Natural Science and Radiobiology (research on tumours with experimental animals)

Specialist Staff

Dr Christina Geddes
Senior Specialist Radiation Oncology & Senior Lecturer; Thyroid, Oesophageal and Gastro-intestinal cancers

Dr Dorothea Kranold
Part-time Senior Specialist Radiation Oncology & Senior Lecturer; Tumours of the ear, nose & throat, Head & Neck Cancer, Sarcomas

Dr Elizabeth Murray
Senior Specialist Radiation Oncology & Senior Lecturer; Breast Cancer

Dr Clare Stannard
Senior Specialist Radiation Oncology & Senior Lecturer; Head & Neck Cancer, Tumours of the Eye, Neutron & Proton Therapy

Dr Helen Stubbings
Specialist Radiation Oncology & Lecturer; Lymphoma, Myeloma, Leukaemia

Dr Leon Van Wijk
Senior Specialist Radiation Oncology & Senior Lecturer; Gynaecological tumours

Dr Jenni Wilson
Part-time Specialist Radiation Oncology & Lecturer; Proton therapy; Neutron therapy; Neuro-oncology

Medical Officers

Dr Cindy Shepherd
Principal Medical Officer Radiation Oncology; Main interests - Lung cancer, Tumours of the thyroid, Male genito-urinary tract cancer.

Scientific Staff

Dr Andre Hendrikse
Senior Medical Natural Scientist & Lecturer; Research in Medical Natural Science Radiobiology (research on tumours with experimental animals)

Dr Alistair Hunter
Medical Natural Scientist; Research in Medical Natural Science Radiobiology (research on tumours with experimental animals)
CONTRACT RESEARCH STAFF

Part-time Clerical Research Assistants (data managers)
Mrs Jackie Duncan-Smith
   Data manager for Dr Johnson; Myeloma, Melanoma, Lymphoma, Leukaemia
Mrs Sue Giles
   Data manager for Professor Werner and Dr Murray; Breast Cancer
Mrs E McEvoy
   Data manager for Professor Werner and Dr Murray; Breast Cancer
Mrs N Nedev
   Data manager for Professor Werner and Dr Murray; Breast Cancer
Mrs Jean Wilmot
   Data manager for Professor R Abratt; Lung Cancer, Male Genito-urinary Tract Cancer

HONORARY LECTURERS

Dr R Christians
   Senior Specialist Radiation Oncology, Provincial Hospital, Port Elizabeth; Clinical participation in multidisciplinary clinics for full spectrum of malignant disease; participant in national & international cancer related drug research studies; postgraduate lecturer in Radiation Oncology

Dr V Reddi
   Principal Specialist Radiation Oncology, Frere Hospital, East London; Clinical participation in multidisciplinary clinics for full spectrum of malignant disease; participant in national & international cancer related drug research studies; postgraduate lecturer in Radiation Oncology

Professor G R H Sealy
   Emeritous Professor/ Specialist Radiation Oncology

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CONFERENCE ABSTRACTS

International Conferences


National Conferences


UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE


CONSULTANCIES BASED ON EXPERTISE DEVELOPED IN RESEARCH


Werner, I.D. 2000. Regional (AFRA) Training Course on Radiotherapeutic Management of Paediatric Tumours, Cairo, Egypt.

DEPARTMENT OF RADIOLOGY

HEAD OF DEPARTMENT - Professor Stephen James Beningfield

DEPARTMENTAL CONTACT DETAILS
Postal Address: Department of Radiology
C16, Groote Schuur Hospital
Private Bag
Observatory
7935
South Africa
Telephone: SA (21) 404-4184 or (21) 406-6426
Fax: SA (21) 404-4185
email: steveb@curie.uct.ac.za

DEPARTMENTAL PROFILE
The Department of Radiology encompasses sub-departments in Groote Schuur Hospital, Red Cross
Children's Hospital and Somerset Hospital. There is also departmental activity in GF Jooste, Conradie
and Victoria Hospitals. Diverse multidisciplinary units include neuroradiology, thoracic, interventional,
head and neck, hepatobiliary, vascular, trauma, urological and abdominal radiology. These all have
service and collaborative research commitments. A number of trials in conjunction with Radiation
Oncology, Medicine, Surgery and other departments are on-going. A joint trial evaluating the clinical
utility of a new type of digital x-ray machine with other UCT departments and private industry is
progressing. Teleradiology is also being evaluated in projects under way at present.

During this year, the department has lost a number of staff to overseas institutions and private practice,
which has resulted in a loss of experienced personnel. One registrar also died tragically in a car
accident earlier in the year.

DEPARTMENTAL STATISTICS 2000

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<tr>
<th>UNIVERSITY STAFF</th>
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<td>Professor and HOD</td>
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RESEARCH FIELDS

Dr Seymour Atlas
Gastrointestinal; vascular; interventional radiology; paediatric radiology

Professor Stephen Beningfield
Hepatobiliary; vascular; interventional radiology; computer applications and digital radiology

Dr Savvas Andronikou
Paediatric radiology

Dr Helen Ball
Ultrasound; mammography; computerised tomography and urological radiology

Dr R Fisher
Paediatric radiology

Dr Minnie Garb
Head and neck radiology; ear nose and throat imaging

Dr Hillel Goodman
Chest radiology; high-resolution computerised tomography and fine needle biopsies

Professor Leonard Handler
Neuroradiology

Professor Ronald Kottler
Mammography; gastrointestinal radiology

Dr Elizabeth Lazarus
Vascular; interventional radiology; ultrasound

Dr Kamila Padia
General radiology; ultrasound

Dr Trevor Roman
Computerised tomography and ultrasound

Dr Robert Seggie
Ultrasound; computerised tomography and musculo-skeletal radiology

Dr Peter Steward
Vascular; interventional radiology; ultrasound

Dr Althea van Zyl
Ultrasound; obstetrics and gynaecology; general radiology

Dr Christopher Young
Swallowing pathology; gastrointestinal radiology; general radiology

DISTINGUISHED VISITORS

Dr David Asinger
Musculo-skeletal radiology

Professor Michael Forsting
University of Essen, Germany; Magnetic resonance

Dr Mary Paul Colgan
St James Hospital, Dublin, Ireland; Vascular imaging

Dr Lawrence Friedman
Canada; Ultrasound of shoulder pathology

Dr Martin P Sandler
Chairman Radiology Department, Vanderbilt University School of Medicine, Nashville, Tennessee, U.S.A.; PET and SPECT

Mr John Postelmans
MRI Business Management, Philips International, Holland; Magnetic resonance

Inspector Koos Pieterse
South African Police; Bullets and projectiles

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CONFERENCE ABSTRACTS


UNIVERSITY PUBLICATIONS AND PUBLICATIONS OF A POPULAR NATURE


DEPARTMENT OF SURGERY

HEAD OF DEPARTMENT - Professor John Terblanche

DEPARTMENTAL CONTACT DETAILS

Postal address: Department of Surgery
               Health Sciences Faculty
               Anzio Road
               Observatory
               7925
               South Africa
Telephone: SA (21) 406-6229
Fax: SA (21) 448-6461
e-mail: jterblan@uctgsh1.uct.ac.za

DEPARTMENTAL PROFILE

The Department of Surgery comprises of four General Surgical Firms specializing in hepato-biliary-pancreatic surgery, surgical oncology and endocrine surgery, vascular surgery and colorectal surgery, as well as the Trauma Unit, the Intensive Care Unit and Transplant Unit. Despite the heavy clinical load, research in the various disciplines remains a high priority. The high research output in the form of publication of chapters in books and articles in peer reviewed journals have been remarkable despite cutbacks in financial support. There have also been significant contributions at major International and National conferences. Surgical Research in the J S Marais Surgical Laboratory and the Microsurgery Laboratory continues to expand, with increasing collaboration with other Departments in the Faculty and research institutes elsewhere in the world. The Department is part of the MRC/UCT Liver Research Centre, and has made significant contributions in the understanding and treatment of liver disease.

DEPARTMENTAL STATISTICS 2000

PERMANENT AND LONG TERM CONTRACT STAFF

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<tr>
<th>PAWC STAFF</th>
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<tr>
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TOTAL: 55

HONORARY STAFF

| Honorary lecturers 4 |
| TOTAL 4 |

192
RESEARCH FIELDS

PERMANENT STAFF

Professor J Terblanche
Head of Department & Division, Department of Surgery. Co-Director: Liver Research Centre; Portal hypertension; injection sclerotherapy; liver tumours; liver resection; bile duct disease

Professor D M Dent
Head: Oncology / Endocrine Unit; Breast cancer; gastric cancer; endocrine neoplasm

Professor E J Immelman
Head: Vascular Unit (For 1999); Venous thrombosis; thrombolysis in acute arterial occlusion; pulse generated run-off; arterial trauma; diabetic foot

Professor PC Bornman
Head of Surgical Gastroenterology; Acute and chronic pancreatitis; pancreatic carcinoma; choledocholithiasis; ERCP; portal hypertension; laparoscopic surgery

Assoc. Professor JEJ Krige
Surgical Gastroenterology; Portal hypertension; injection sclerotherapy; liver resection; liver tumours; hydatid disease; liver trauma

Assoc. Professor D Kahn
Head: Organ transplantation and Surgical Research Laboratories; Liver regeneration; transplantation; xenotransplantation

Assoc. Professor PA Goldberg
Head of Colorectal Unit; Colorectal cancer; inflammatory bowel disease; colonic motility; sphincter saving surgery; constipation; HNPCC

Dr MV Madden
Colorectal Unit; HNPCC (Hereditary non-polypoidal colon cancer)

Dr A Nicol
Head of Trauma Unit

Dr W L Michell
Head: Surgical Intensive Care Unit; Sepsis; nutrition; scoring systems

Dr A B van As
Trauma Unit; Reperfusion injury in transplantation

Dr A Mall
Surgical Laboratories; Gastric Mucin

Mr GHC Engelbrecht
Microsurgery Laboratory; Microsurgery

DISTINGUISHED VISITORS

Professor R W Strong (Visiting Professor)
Hepato-biliary surgery

J H Louw (Visiting Professor)
Hepato-biliary surgery

Professor Lewis Spitz (Penman Visiting Professor)
Paediatric Surgery

Penman Visiting Professor
Paediatric Surgery

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


CHAPTERS IN BOOKS


CONFERENCE ABSTRACTS


INVITATIONS TO PARTICIPATE IN JOURNAL DEBATE; PEER EXCHANGE AND INSIGHTS IN MEDICINE


THESIS AND DISSERTATIONS PASSED FOR HIGHER DEGREES

DEPARTMENT OF UROLOGY

HEAD OF DEPARTMENT – Professor J H Naudé

DEPARTMENTAL CONTACT DETAILS

Postal Address: Department of Urology
UCT Medical School
Area E26
New Groote Schuur Hospital
Observatory
7925
Telephone: SA (21) 406-6529
Fax: SA (21) 406-6122
e-mail: jnaude@uctgsh1.uct.ac.za

DEPARTMENTAL PROFILE

The department renders a urological service in four hospitals. In addition to our regular registrars we are training one supernumerary registrar from the SADF.

The department is involved in ongoing collaborative work with renal transplantation, gynaecology in the management of female incontinence and with oncology. Work is done in the field of reconstructive urological surgery. Clinics for the management of erectile dysfunction and metabolic investigation of nephrolithiasis are providing research material. Collaborative research is done with centres in the UK, Scandinavia and the USA on aspects of reconstructive urological surgery.

DEPARTMENTAL STATISTICS

PERMANENT AND LONG TERM CONTRACT STAFF

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RESEARCH FIELDS

PERMANENT STAFF

Associate Professor J H Naudé
Head of Department; Reconstructive urological surgery; urethral stricture disease; ureteric strictures; minimally invasive surgery

Dr A R Pontin
Senior Lecturer; Urological oncology; female incontinence; renal infection in diabetics

Dr R D Barnes
Senior Lecturer; Urological oncology; metabolic aspects of renal calculus disease

Dr L Jee
Senior Lecturer (part-time); Paediatric urology
RESEARCH OUTPUTS

CONFERENCE ABSTRACTS


Naudé, J.H. Make love not war! A new vacuum erection device. 98th Annual Meeting of the American Urological Association, New York Section.


HSRC/UCT CENTRE FOR GERONTOLOGY

HEAD OF DEPARTMENT – Dr Monica Ferreira

DEPARTMENTAL CONTACT DETAILS
Postal address: HSRC/UCT Centre for Gerontology
Faculty of Health Sciences
University of Cape Town
Observatory
7925
South Africa
Telephone: SA (21) 448-4840/1/2
Fax: SA (21) 447-8714
e-mail: gerontol@cormack.uct.ac.za

DEPARTMENTAL PROFILE
The Centre for Gerontology was established in 1991 as a joint venture of the Human Sciences Research Council and the University. The inter-disciplinary Centre aims to enhance the quality of life and well-being of older South Africans by (1) identifying and conducting relevant research on problems and needs, (2) providing a meeting ground for researchers, policy makers, field professionals and other public officials and citizens to link research findings with policy and practice, (3) promoting research capacity building and gerontological education and training, and (4) disseminating knowledge and information on ageing. Current research areas are economics of ageing, social and community care, impact of HIV/AIDS on older persons, elder abuse, age-related cognitive impairment and health development. The Centre has published the Southern African Journal of Gerontology bi-annually.

DEPARTMENTAL STATISTICS 2000

PERMANENT AND LONG TERM CONTRACT STAFF

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RESEARCH FIELDS

PERMANENT STAFF

Dr Monica Ferreira
Director, Centre for Gerontology; social gerontology; population ageing; medical sociology; ageing in Africa

Mrs Johannah Keikelame
Senior Scientific Officer; social, health and community care and development; empowerment

Ms Yoemna Mosaval
Research Assistant

Mrs Alayne Opperman
Administrative Assistant
DISTINGUISHED VISITORS

Professor Nana Apt  
Director, Centre for Social Policy Studies, Ghana; ageing in Africa

Professor John Copeland  
Director, Institute of Human Ageing, Liverpool, UK; dementia research

Dr Martin Prince  
London School of Tropical Hygiene and Medicine, UK; dementia research in developing countries

Dr Andreas Sagner  
Institute of Ethnology and African Studies, Munich, Germany; old age anthropology

Dr Els van Dongen  
Medical Anthropology Unit, University of Amsterdam, the Netherlands; remembrance, mental health in old age

Ms Rosemary Williams  
Medical Social Worker, Ottawa General Hospital, Canada; elder abuse, palliative care

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREEED ARTICLES


PUBLISHED CONFERENCE PROCEEDINGS


UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE


CONSULTANCY AND OTHER ACTIVITY BASED ON EXPERTISE DEVELOPED IN RESEARCH

Dr Monica Ferreira is an executive board member of the African Gerontological Society (Ages International); an advisory board member of the African Foundation for Research and Interdisciplinary Training in Ageing (AFRITA); and a board member of the Abbeyfield Society of South Africa. She serves in several United Nations Program on Aging expert groups; on the UN Technical Committee to review the International Plan of Action on Ageing; and in an Organisation of African Unity (OAU)/HelpAge International (HAI) expert group. She is the founding editor of the Southern African Journal of Gerontology.

Mrs Mpoe Johannah Keikelame is a national executive committee member of the South African Gerontological Association (SAGA) and an affiliate of the Buzani Kubawo Inyangas’ Association.