The Waikato Clinical Campus is an academic division of The University of Auckland, Faculty of Medical and Health Sciences. The Campus provides clinical teaching for undergraduate medical students and is involved in postgraduate training and research. The Campus supports the School of Nursing’s postgraduate programme and a number of university-led projects that are based in Waikato.

The main purpose of the Campus is to provide an outstanding environment in which medical students can undergo their clinical training. We aim to pursue excellence in teaching and learning through exposure of our students to high quality clinical teachers. The Campus is also committed to increasing its research performance and the number and quality of its postgraduate students in line with The University of Auckland’s strategy.

**Our Mission Statement**
The Waikato Clinical Campus first and foremost aims to provide an excellent clinical learning environment for students. The Campus also aims to increase both its clinical and basic research and encourage increasing liaison with researchers in New Zealand and internationally.
Affiliations and Collaborations
The Waikato Clinical Campus could not operate without the support and input from a number of key collaborators. In particular we recognise the considerable support we receive from the Waikato District Health Board. We also have strong links with Lakes and the Bay of Plenty DHBs and Midlands Health Network.

Over the years the Campus has received funding from the Waikato Medical Research Foundation and appreciate its ongoing support of research.

Our History
An agreement concerning the formation of the Waikato Academic Division, (renamed the Waikato Clinical Campus in 2001) was signed by Professor Peter Gluckman from the University of Auckland and Dr Tony Cull, Health Waikato CEO in 1994. The first cohort of 24 final year medical students commenced in November 1994.

The Campus grew rapidly under the leadership of Dr Peter Rothwell and became a clinical teaching centre with an excellent reputation for providing clinical experience and a supportive environment for the students. In 2002 a new building incorporating the Clinical Skills Centre and the Library was opened and named the ‘Peter Rothwell Academic Centre’. Dr Rothwell was succeeded by Dr Jack Havill in 2003 and Professor Ross Lawrenson in 2005.

The Chief Executive Officer of the Waikato DHB from 1998 to 2005 was Dr Jan White who not only supported the Waikato Clinical Campus as a teaching centre but also supported research with the establishment of Chairs in Medicine, Anaesthetics, Psychiatry and Primary Care. This support for research has been continued by subsequent CEOs. The University of Auckland greatly values their strategic partnership with the Waikato DHB and formally signed a ‘Strategic Alliance Agreement’ in November 2005. In 2014 the name Waikato Clinical School was changed to Waikato Clinical Campus.

Undergraduate Students
The purpose of the Campus is to provide an outstanding environment in which medical students can undergo their clinical training and to pursue excellence in teaching and learning through exposure to high quality clinical teachers. Medical students from The University of Auckland apply to undertake clinical training at the Waikato Clinical Campus and can be accommodated in the specialties in the 4th, 5th and 6th years of the course. Selective and elective attachments are also available with limited number of overseas elective students accepted each year.

In 2014 we took a cohort of 36 students and shared the general medicine teaching with Rotorua. Our Midland 5th Year cohort consisted of 47 students with clinical attachments in Waikato, Rotorua and Tauranga Hospitals. We also
had 35 students in 6th Year at Waikato. Of these, Waikato DHB students have taken up PGY1 positions at Waikato Hospital. This was the 4th year that Waikato Clinical Campus has taken a full cohort of 5th year medical students.

**Hauora Māori**
The Campus continues its partnership with Te Puna Oranga (Māori Health Unit). The HRC-funded project on prostate cancer came to its final stage at the end of the year. Dr Nina Scott has been our Māori academic advisor on the project. Part of this study has been looking at the cause of the inequity in outcomes for Māori patients with prostate cancer and a separate report is planned on this in 2014. We have also had the support of Mr Rawiri Blundell with Hei Pa Harakeke (Midland Māori Advisory Group).

The final report for the Health literary in Palliative Care for Māori (PI Dr Jacquie Kidd) was also approved by the HRC.

Dr Sanjeewa Senewiratne continues his research on differential outcomes for Māori woman with breast cancer. Dr Jade Tamatea has provided valuable educational support to local MAPAS students.

**Publications**
1. Scott N. A Maori cultural reluctance to present for care, or a systems and quality failure? How we pose the issue, informs our solutions. NZ Med J. 2014 May 2;127(1393):8-11.

**Elective Students**
The WCC hosted 16 overseas elective students and 30 UoA in 2014. The majority of our elective applications are from the UK and Germany.

**WCC Prizes 2014**
**The David Clews Prize for Best Student at Waikato Clinical Campus**
For the student that best reflects the attributes of academic excellence, leadership and contribution to the community:
Matthew Bowman

**Waikato TI Prize in General Practice sponsored by Midlands Health Network**
For the trainee intern that achieves the highest summation of individual marks awarded for performance during the general practice attachments:
Maria Melchers

**Ellis Dick Trainee Intern Prize for Surgery**
For the most outstanding trainee intern in surgery:
Ken Ip & Rebecca Mann
**Peter Rothwell Clinical Teacher Award**
For recipients that shows excellence in clinical training:
Peter Subramaniam

**Te Pae Tata o Te Hauora Hinengaro - Trainee Intern Prize for Excellence in Psychiatry**
Matthew Bowman

**Postgraduate Study**
There were 9 PhD scholars, 3 MD students and 1 masters student registered with the University of Auckland with supervisors from Waikato Clinical Campus during 2014.

2014 was our first year to invite PhD and MD candidates to submit their publications for consideration of Waikato Medical Research Foundation Best Paper Award. The winning submission for Waikato Medical Research Foundation Best Paper Award was presented to Deborah Harris for her paper “Dextrose gel for neonatal hypoglycaemia (the Sugar Babies Study): a randomised, double-blind, placebo-controlled trial”. Deborah was presented with a certificate and received $1000 funded by Waikato Medical Research Foundation at the Biannual Research Seminar in September.

Waikato Medical Research Foundation Best Paper Award for PhD student in 2014 Deborah Harris and Noel Karalus

**2014 PhD Students**
Dr Nathaniel Chiang (supervised Professor Jamie Sleigh)
Dr Darren Hight (supervised Professor Jamie Sleigh)
Vivienne Axon (supervised by Dr Jacquie Kidd)
Rick Mann (supervised by Dr Jacquie Kidd)
Alice Wang (supervised by Professor Lynn Ferguson & Professor Ross Lawrenson)
Chunhuan Lao (supervised by Professor Ross Lawrenson)
Dr Ryan Paul (supervised by Associate Professor John Conaglen)
Dr Sanjeewa Seneviratne (supervised by Prof Ross Lawrenson & Associate Professor Ian Campbell)
Dr Jade Tamatea (supervised by Associate Professor John Conaglen)
Dr Zuzana Obertova (supervised by Professor Ross Lawrenson)

MD
Dr Grant Cave (supervised by Professor Jamie Sleigh)
Dr Garry Nixon (supervised by Professor Ngaire Kerse & Professor Lawrenson)
Dr Sangeeta Dey (supervised by Professor Graham Mellsop)

Masters
Claire O’Shea (supervised by Professor Ross Lawrenson)

Research
There are four professorial units within the Waikato Clinical Campus: Medicine, Anaesthetics, Psychiatry and Primary Care. The establishment of these units was initially funded by the Waikato District Health Board.

All of our researchers work closely with their respective departments in the Faculty of Medical and Health Sciences in Auckland.

Medicine
The department of Medicine is active in clinical research in a number of areas and includes: Cardiology, Endocrinology, Rheumatology, Respiratory Medicine, Oncology and Dermatology.

Cardiology
Associate Professor Gerry Devlin is the current Medical Director of the National Heart Foundation. He is a Cardiologist and Honorary Associate Professor in Medicine with the Waikato Clinical Campus of the University of Auckland. He is also the clinical leader of the Midland Cardiac Network. Gerry continues to lead his cardiology research team.

Publications


**Endocrinology**

In endocrinology, Drs Elston, Conaglen & Meyer-Rochow have led an active team which particularly focuses on research into thyroid and adrenal disease. The unit have a strong commitment to train young physicians to become clinician-scientists. With the withdrawal of AgResearch from the Waikato, collaborative links are being developed with Dr R Curson’s lab in the Department of Biological Sciences, University of Waikato. Dr Jade Tamatea has recruited approximately 350 patients with hyperthyroidism to further her study into the impact of ethnicity in thyrotoxicosis. Dr Ryan Paul is nearing the completion of his PhD into field of the role of how growth factors and sex steroids impact growth of skeletal muscle. Dr Sarina Lim was awarded her MD for her work demonstrating in a murine model that absence of myostatin improves cardiac function after myocardial infarction. The team presented a number of posters at the annual International Endocrine Society meeting in Chicago this year. In addition, the Waikato unit, led by Dr Elston, organized the first very successful combined meeting of the New Zealand Society of Endocrinology and Endocrine Surgical meeting in Queenstown.

The local research development involves both locally initiated projects (some of which serve as research projects to achieve training goals for registrars, including them acting as PI) as well as supporting other clinical staff at Waikato DHB to develop and conduct their own cancer-related research.

**Publications**


4. Wickramarachchi BN, Meyer-Rochow GY, McAnulty, K, Conaglen JV, Elston...
MS. Adherence to adrenal incidentaloma guidelines is influenced by radiology report recommendations. ANZ J Surg 2014 Jul 25 [Epub ahead of print].


**Rheumatology**

During 2014, work has continued on the Unit’s research themes of gout, spondyloarthritis, vasculitis and systemic sclerosis, both through ‘in house’ research and through collaboration with other units in New Zealand. With regard to gout, the unit has contributed to international research developing new classification criteria for gout as well as the national gout genetics study. Our work on systemic sclerosis has been well received at the World Scleroderma Congress in Rome and our registrar’s case report and literature review on systemic sclerosis following silicone breast implant rupture has been commended and cited as a reference work. The Spondyloarthritis, Genetics and the Environment Study (SAGE) has continued to prove a valuable collaborative research effort with analysis of novel genetic markers currently underway. We contribute to a large international trial DCVAS (Development of diagnostic and classification criteria for vasculitis study).

We are especially proud of the work of a 5th year medical student who has contributed to two posters and written a publication on retention on anti-TNF agents that has been accepted for publication in the New Zealand Medical Journal.

**Publications**


**Respiratory**
Respiratory Medicine continues to run an active research unit. Research is led by Dr Cat Chang with the support of Associate Professor Bob Hancox, University of Otago. Research projects with the HRC include COPD, bronchiectasis and asthma. The Unit also has an interest in sleep apnoea. There are two current research fellows including one doing their PhD.

**Publications**

**Oncology**
Dr Michael Jameson has been responsible for initiating local and national collaborative studies in breast, colon and rectal cancer as well as glioblastoma and melanoma, with a theme of repurposing drugs in oncology and evaluating the use of diet to induce metabolic tumour stress during cancer treatment. He currently has MSc and PhD students working on related projects in the Molecular Genetics Laboratory at the University of Waikato.

Dr Marion Kuper has been appointed Honorary Senior Lecturer at Auckland University in July 2014. She was involved with the TEACH trial as the Waikato PI. And was the New Zealand PI and co-chair for the Australia New Zealand Breast Cancer Trials Group (ANZBCTG) is the ALTTO trial. The first results were presented at the Annual Scientific meeting of ASCO in 2014.

**Publications**

**Dermatology**
The Department of Dermatology at Waikato Hospital provides a leading role within New Zealand for both teaching and research. The Department has a strong academic focus, and is particularly noted for its research and publications on medical dermatology, teledermatology and teledermoscopy. Staff includes Honorary Associate Professor Marius Rademaker and Honorary Associate Professor Amanda Oakley. The department has a special interest in applying technology to dermatological education and teleconsultation. Senior medical staff members have presented at numerous international meetings and have published original research papers, case reports, reviews and critical appraisals
for peer reviewed and general medical journals and textbooks. Associate Professor Amanda Oakley, with assistance from her colleagues in the department, has developed a comprehensive worldwide web site for the DermNet New Zealand (www.dermnetnz.org). The site includes comprehensive information for patients about more than 1000 conditions and treatments and Continuing Medical Education for health professionals.

Associate Professors Oakley and Rademaker have been made International Honorary Members of the American Dermatological Association (Oakley) and Mexican Academy of Dermatology (Rademaker). Associate Professor Oakley was further awarded an Honorary Membership of the American Academy of Dermatology, and Associate Professor Rademaker a member of Sigma Xi, the Scientific Research Society. Associate Professor Oakley has been invited to be a Member of the International Advisory Board for the Department of Dermatology at Balaji Medical College, Chennai, India.

**Publications**

Textbook chapter

2. Oakley A M M; Editor for Dermatology section Harris P, Nagy S, Vardaxis N; Mosby’s Dictionary of Medicine, Nursing and Health Professions 3e (ANZ edition). June 2014. ISBN: 9780729541381

**Surgery**

The Department of Surgery have a number of academic appointments including Associate Professor Ian Campbell, Mr Win Meyer-Rochow and Mr Thodor Vasudavan. In addition Mr Askar Kukkady and Mrs Uduya Samarakkody lead an active paediatric surgical department while Mr Adam El Gamel is the Clinical Director of the Cardiothoracic Surgical Unit. Mr Grant Christey heads the Midland Trauma Registry Research Group and leads trauma research to the region. Research themes for the Department include breast surgery, endocrine surgery (see Department of Medicine) vascular/cardiothoracic surgery, trauma and paediatric surgery.
Breast Surgery
Associate Professor Ian Campbell has co-authored a number of further publications, and made presentations based on data from the Waikato Breast Cancer Register and the Breast SurgANZ Quality Audit. Dr Sanjeeewa Seneviratne, a PhD scholar from Sri Lanka, has completed his research project to investigate reasons for poor outcomes among Maori women with breast cancer in the Waikato region supervised by Associate Professor Ian Campbell and Professor Ross Lawrenson. Our team were successful with an HRC Project Grant last year looking at extending this work, combined with the Auckland Breast Cancer Register, to enable a broader population base and examination of outcomes for Pacific women in further detail. This project is also looking to introduce pilot interventions, to determine if outcomes can be improved.
Ian is also continuing his clinical trial results, with interesting publications in the last year outcomes from sentinel node based management of the axilla, on long term prevention effects of Tamoxifen, the role of ovarian ablation and aromatase inhibitors in premenopausal women, and use of a Decision Aid to assist understanding and participation in a clinical trial.

Publications
Paediatric Surgery
Paediatric Surgery runs a tertiary regional service for the Midland region with an extensive outreach service. The department has a special interest in Neonatal Surgery, Paediatric Urology and Minimal Access Surgery. They also have a particular interest in congenital abdominal wall defects and chest wall anomalies. The department accepts regular students from the University of Auckland; additionally it is open to selective and elective students from New Zealand and overseas. There is an extensive teaching program and a research program available to such students.

Vascular and Cardiothoracic Surgery
Mr Adam El Gamel is leading research in the area of cardiothoracic surgery in conjunction with Vascular Surgeon Mr Thodur Vasudevan.

Publications

Paediatrics
Paediatric Medicine at Waikato forms part of a spectrum of services under the Waikids umbrella which includes Mothercraft, Child Development Centre, Children’s Clinic, Mental Health services, Emergency Department, Child Protection Service, Oral Health, and inpatients. Dr David Graham has been the principal investigator in a randomised intervention study of exercise in school children.
funded by the Waikato DHB - Project Energize. The intervention arm is being run by Sport Waikato.

Mrs Deborah Harris finalised her PhD with the Liggins Institute co-supervised by Dr Phil Weston. Dr David Graham has been an Honorary Clinical Senior Lecturer in the Department of Paediatrics: Child and Youth Health for 20 years. He became the first 2012 Dennis Pickup Award recipient from the School of Medicine. He has led the undergraduate teaching programme for paediatric trainee interns at the Waikato District Health Board and contributes actively to Paediatric 5th year teaching and postgraduate teaching.

Publications

Anaesthetics
The academic Department of Anaesthesia is led by Professor Jamie Sleigh and supported by Dr Logan Voss (Research Scientist), Dr John Barnard (Clinical Senior Lecturer/Clinical Anaesthetist), Dr Hugh Douglas (Clinical Senior Lecturer/Clinical Anaesthetist). Dr Kelly Byrne has been very active in promoting clinical research within the department. Dr Martyn Harvey from the Emergency Department is also working closely with Professor Sleigh in a collaboration with Professor Denny, on the development of ester analogues of ketamine. The anaesthetic research group has interests in: depth-of-anaesthesia monitoring and the detection of nociception while under general anaesthesia, and the modelling of anaesthesia, sleep, and seizures.

National and international collaborative links have been further strengthened with the publication of several co-authored papers, and involvement in a number of new multicentre clinical trials. Current external organisation which the department has research collaborations with include: Waikato University, University of Leiden, UC Berkeley, UC Stanford, University of Wisconsin (Madison), University of Adelaide, University of Melbourne, Institute of Electrical Engineering, Yanshan University, Qinquangdao, Hebei, China, Oxford University & Emory University.

Publications

**Psychiatry**

The members of the Department of Psychological Medicine based at the Waikato Clinical Campus have in recent years been research active in the areas of classifications/diagnostic systems, outcome measures, substance use comorbidity, and psychopharmacology. Clinician researchers working with Professor Graham Mellsop have been particularly active in some aspects of Maori mental health, effectiveness (as opposed to efficacy) in the management of patients with schizophrenia, and in some forensic psychiatric topics. Associate Professor David Menkes has continued his work on detecting and managing side effects of drugs used in psychiatry, and in the general area of competing interests and their impact on psychiatric knowledge and practice.

Currently, three psychiatrists (Drs Dey, Wimalaratne, and Brand) are doing doctorate level research on some of the above topics.

**Publications**


Primary Care
Research in the department has increasingly focused on primary care cancer research. This is led by Professor Ross Lawrenson with support from Dr Charis Brown, Dr Nina Scott and Dr Fraser Hodgson. We have much appreciated the advice and support of Professor Mark Elwood from Auckland. The group won research grants from Janssen Pharmaceuticals in 2014 and were successful in a joint HRC Project grant with the Department of Surgery. Professor Lawrenson also assisted Professor Elwood in a benchmarking project in cancer management in primary care. Professor Lawrenson and Dr Charis Brown were also involved in the HRC PIPER study of colorectal cancer.

Publications


Population Health
Dr Anita Bell and Dr Polly Atatoa-Carr are Public Health Physicians at Waikato. Dr Bell is a Medical Officer with an interest in infectious diseases and rheumatic fever and an Honorary Senior Lecturer with the Waikato Clinical Campus. Dr Atatoa-Carr is Associate Director of the Growing Up in New Zealand study for the University of Auckland and works part-time in community paediatrics with the Waikato DHB.

Publications:

Nursing
Dr Jacquie Kidd, Mrs Kathy Shaw and Ms Sarah Haldane are involved in the postgraduate teaching and Masters and PhD supervision of over 120 nurses from the Waikato DHB and the Midlands region. Jacquie's research focus this year was on housing and accommodation for vulnerable populations including mental health service users. She is Principal Investigator on two Oakley Foundation funded studies that explore service users’ and providers’ aspirations for housing support services. She is also involved in an HRC funded study in breast cancer with other academics from the Waikato Clinical Campus and Waikato DHB. Kathy is co-investigating a study on the ‘Evaluation of postgraduate education for graduate nurses and experienced nurses’ in Waikato. Jacquie and Kathy both supervise small numbers of Masters Students and provide academic mentorship for nurses planning their postgraduate study.

Jacquie and Kathy both provide academic mentorship for nurses planning their postgraduate study.
Publications


**Summer Students**
The Waikato Clinical Campus offers ‘Summer Studentships’ each year. This programme is managed by Associate Professor John Conaglen. In 2014, 11 summer studentships were awarded which were primarily funded by the Waikato DHB.

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<th>Supervisor</th>
<th>Project Title</th>
<th>Student Name</th>
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<td>Inflammation caused by on- and off-pump coronary artery bypass surgery. For on-pump procedures does ultrafiltration make a significant difference?</td>
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<td>Dr Linda Peters</td>
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<td>Professor Jamie Sleigh</td>
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<td>General anaesthetic modulation of gene expression in the mouse brain</td>
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<td>Dr Kelly Byrne</td>
<td>Testing a simple method to reverse the clinical effects of a nerve block</td>
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Waikato Clinical Skills and Simulation Centre

2014 saw another busy and successful year with an increasing number of courses and workshops for a wide range of health professionals.

Highlights for the year include:
  - Four Trainee Intern CORE Resuscitation and Procedural Skills weeks
  - Another Advanced and Complex Medical Emergency (ACME) course for ED consultants held over three days in April
  - A three-day APLS (Paediatric Life Support) courses and two three-day EMST (Trauma) courses for registrars from around New Zealand
  - Grassroots (rural medical and nursing students) practical skills weekend, and an interest day for Year 13 students from rural secondary Campuses with an interest in pursuing a career in health
  - Nine Newborn Life Support courses for midwives
  - Extensive use of our new SimMan 3G wireless human patient simulator - some in-situ in the new Emergency Dept, ICU and Cath Lab
  - Over 200 NZRC CORE resuscitation courses for many different groups
  - Continuing education sessions for GPs and Practice nurses
  - Regular simulation sessions for ICU, ED, CCU, PACU, Ward 14, Anaesthetics and Wintec
  - Extensive use of our new Studiocode video and debriefing software
  - Allocation of additional temporary rooms in Waiora Level 4 to allow concurrent sessions and break out space

Rob Sinclair, Director of the Skills Centre, would once again like to acknowledge and thank all the teaching staff for their excellent contributions and enthusiasm in helping to make the centre an on-going success and a valuable resource for all our health professionals - with special mention to Kevin Nation and Renee McKeany for their continued interest, innovation and extra commitment to the centre.

WCC Administration

Current WCC meetings/committees include;
- WCC Staff meetings  
  - monthly
- WCC Executive meetings  
  - bi-monthly
- WCC Teachers meetings  
  - 4 times a year - all clinical staff
- WCC Biannual Research Seminar  
  - March and September
Administration Staff

Campus Manager
Student Administrator/Secretary
Student Administrator/Secretary
Student Administrator/Secretary