

UNIVERSITY
of
OTAGO



Te Whare Wānanga o Otāgo

University of Otago

Research Capacity: Rehabilitation

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Executive Summary

In January 2007, the University of Otago Research Committee recognised the Rehabilitation and Disability Research Theme. This Theme represents the collaboration of researchers from across the University of Otago. It includes a steering group of external advisors and Research Theme leaders with one common goal: to be the premier rehabilitation and disability research organisation in New Zealand.

The Theme's objectives are to promote health and wellness for people with injury and disability; enhance the quality of rehabilitative care; and optimise quality of life for people with injury and disabilities, including those musculoskeletal, neurological, and chronic health conditions that may lead to impairment and/or disability.

This report profiles the members of the Rehabilitation and Disability Research Theme and highlights the excellence of rehabilitation research at the University of Otago. The University of Otago, through its Rehabilitation and Disability Research Theme members is well placed to continue in the long term to deliver strategic, internationally significant rehabilitation research.

Further information can be gained from:

Professor David Baxter
Director, Rehabilitation & Disability Research Theme
Dean, School of Physiotherapy
University of Otago
PO Box 56
Dunedin

Telephone (03) 479 7411
Email physio.dean@otago.ac.nz

Dr Anna Barlow
Business Manager: Food, Environment & Performance
Research & Enterprise Office
University of Otago
PO Box 56
Dunedin

Telephone (03) 479 5047
Email anna.barlow@otago.ac.nz

Stuart Barson
Business Manager: Public Health
Research & Enterprise Office
University of Otago
PO Box 56
Dunedin

Telephone (03) 479 8907
Email stuart.barson@otago.ac.nz

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Rehabilitation and Disability Research Theme

1. Introduction

Rehabilitation research at the University of Otago is the most substantive and of the highest quality in New Zealand. The Performance Based Research Funding (PBRF) results released by the Tertiary Education Commission on the 4th May 2007 showed that of the PBRF eligible research staff in the *Public Health* discipline, Otago was the highest achiever, with eight staff scoring the highest possible 'A' grade and 25 scoring 'B' grades. Of tertiary-sector research providers in the *Other Health Studies (including Rehabilitation therapies)* discipline, Otago has the highest number of staff in the sector across New Zealand, with 51 eligible staff. Of these, six researchers scored an 'A' grading and fifteen staff scored a 'B' grading. The next largest grouping of research staff (AUT); scored no 'A' grades and three 'B' grades from the 42 PBRF eligible staff. In the discipline of *Sport & Exercise Science* Otago was also rated the highest of all tertiary research providers and is the only provider with any 'A' graded staff, as well as five 'B' graded staff; two times the number of any other provider.

The majority of participants in rehabilitation research from the University of Otago are *Public Health, Other Health* and *Sport and Exercise Science* specialists who form the core members of the Rehabilitation and Disability Research Theme. Research Themes are research areas in which the University of Otago is pre-eminent and to which the University gives particular recognition and support. The detailed criteria for recognition are that they be research areas:

- in which the University enjoys national leadership and international recognition for excellence;
- in which the University is likely to remain a major contributor in the next several years;
- which might involve active research groups or individuals from more than one Department, School or Division;
- which have a demonstrated ability to attract significant additional funding from outside the University.

The Rehabilitation and Disability Research Theme was acknowledged by the University's Research Committee as a research area worthy of formal recognition in January 2007. Research areas formally recognised as "Themes" by the University's Research Committee must undergo and demonstrate excellence in a series of demanding application procedures. Formally recognised Themes are then allocated additional funding from the University's internal research budget.

2. Organisational Structure

The Rehabilitation and Disability Research Theme is led by Professor David Baxter, Dean of the School of Physiotherapy, University of Otago. The Theme is served by a steering group, made up of the following members:

Director:

- Professor David Baxter, Dean, School of Physiotherapy, University of Otago

Steering Group:

- Professor John Langley, Injury Prevention Research Unit (IPRU), Department of Preventative & Social Medicine, University of Otago

- Dr Sarah Derrett, IPRU
- Dr Peter Davidson, IPRU
- Assoc. Prof. Richard Siegert, Head of Department, Rehabilitation Teaching and Research Unit (RTRU), Wellington School of Medicine & Health Sciences, University of Otago
- Dr Sarah Dean, Senior Lecturer, RTRU
- Dr Stephan Milosavljevic, Head of Musculoskeletal, Occupational Health & Clinical Research Group, Centre for Physiotherapy Research, School of Physiotherapy, University of Otago
- Prof John Campbell, Department of Medicine, Dunedin School of Medicine & Health Sciences, University of Otago
- Ms Lynda McCutcheon, Allied Health Director, Otago District Health Board
- Julian Verkaaik, Project Manager, Burwood Academy of Independent Living
- Dr Linda Wilson, Principal Lecturer, Occupational Therapy, Otago Polytechnic

Membership:

The Theme's internal membership includes over 40 researchers from the Christchurch, Dunedin and Wellington Schools of Medicine and Health Sciences, the School of Physiotherapy, the School of Physical Education and the Departments of Geriatric Medicine, Orthopaedic Surgery, Pharmacology & Toxicology, Physiology, Preventative & Social Medicine, Psychology, Public Health and including members from the Injury Prevention Research Unit (IPRU), Life in New Zealand Unit (LINZ) and the Rehabilitation Teaching and Research Unit (RTRU). External collaborators include staff from Otago Polytechnic Occupational Therapy Department, the Otago District Health Board and the Burwood Academy of Independent Living.

The current membership of the Theme involves all the significant rehabilitation research expertise throughout the University and its collaboration partners. It is expected the membership will grow over time to enable new and emerging researchers to build their expertise under the mentorship of experienced researchers, thus ensuring an on-going provider capability for the future. Additionally, the infrastructure the Theme provides attracts international researchers to visit and collaborate, further enhancing existing capability for the sector.

3. Research Theme Principles

The primary objective of the Theme is to *enhance the quality of rehabilitative care and optimise quality of life for persons with injury and disabilities, including those musculoskeletal, neurological, and chronic health conditions that may lead to impairment and/or disability.*

It is governed by the following principles:

1. conduct research that will improve the quality, effectiveness, and cost-effectiveness of patient care and outcomes;
2. encourage applied research that utilises modern technology to maximize human performance and facilitate the process of adaptation to disability;
3. promote basic research that improves understanding of the determinants of adaptive human performance and disability within the context of impairment and/or disability;
4. promote and engage in collaborative research aimed at the prevention, reduction and resolution of underlying disorder resulting in disabling conditions;

5. engage in collaborative research and education efforts with other medical facilities, universities and industry (e.g. medical equipment companies);
6. attract eminent rehabilitation researchers to the University to collaborate with staff within the Research Theme;
7. provide research training in a variety of specialties, including rehabilitation, neuroscience, neuropsychology, biomechanics, health care outcomes, rehabilitation engineering, and other related fields;
8. conduct research that will increase accessibility to and the effectiveness of patient/family education and community outreach programs.

4. Research Programmes

Theme members undertake research that will improve the quality, effectiveness, and cost-effectiveness of patient care and outcomes. This includes investigations focusing on the prevention, reduction and resolution of disability, as well as quality of life for those affected by injury or disability, and the quality of life of their families and carers. The research aims to produce rational outcomes that help people recover from injury, and improve quality of life.

Efforts are based upon applied research that utilises modern technology, to maximise human performance, and facilitate the process of adaptation to disability; research that improves understanding of the determinants of adaptive human performance and disability within the context of impairment and/or disability; as well as investigations into the accessibility and effectiveness of patient/family education and community outreach programs.

The Rehabilitation and Disability Research Theme builds capacity by research training in a variety of specialties, including rehabilitation, neuroscience, neuropsychology, biomechanics, health care outcomes, rehabilitation engineering, and other related fields.

In the last five years, members of the Theme have been awarded 37 project grants or won extensions of programme grants from the HRC, ACC and other funding agencies exceeding \$17 million in the areas of injury, disability and rehabilitation (see Appendix 1). It is intended to build upon this success through increased national and international collaboration and extension into allied disciplines. The Rehabilitation and Disability Research Theme will ensure that future research programmes for rehabilitation research in New Zealand are conducted in a cohesive, well-organised and strategic manner.

Research Leaders

The following researchers are principal investigators and research leaders at the University of Otago in the field of Rehabilitation Research. More information is available regarding each research leader on request.

1. Professor David Baxter, School of Physiotherapy

Contact Details:

School of Physiotherapy
University of Otago
PO Box 56
Dunedin

Telephone (03) 479 7411
Email physio.dean@otago.ac.nz

Current Position:

Dean, School of Physiotherapy

Tertiary Education

1987 BSc (Hons) Physiotherapy, Ulster
1991 Doctor of Philosophy (DPhil), Ulster
2006 Master of Business Administration (MBA); London

Awards/Distinctions

- 1992 - Physiotherapy Research Society (UK) Founder member, formerly Executive Committee member, Meetings Secretary, Honorary Treasurer
 - American Society for Laser Medicine & Surgery, Resident Research Award (Outstanding Oral Paper)
 - University of Toronto, Visiting Professor, Department of Rehabilitation Medicine
 - American Society for Laser Medicine and Surgery, Fellow (by election), Former Section Chair for Annual Meeting
- 1995 - Royal Academy of Medicine In Ireland, Fellow (by Election); Secretary and Council Member, Biomedical Sciences Section
- 2000 - Coventry University (2000-2005), Visiting Professor, School of Social & Health Sciences
 - International Academy for Laser Medicine & Surgery (formerly European Medical Lasers Association); Vice President (by Election), Member of Panels for Annual Meetings, Fellow (by election)
 - International Association for the Study of Pain, International Ad Hoc committee on curriculum on pain for physical therapy and occupational therapy education.
 - UK Council for Graduate Education, Executive Committee Member (by Election); Workshop Organiser, Convenor for Working Group on Research Training in the Healthcare Professions (2003)
- 2003 -International Society for Lasers in Sports Medicine, Current President; Chair of Scientific Panel and Meeting
 - Committee British Medical Laser Association, Co-organiser, International Conference 2003 (Laser Edinburgh)

- Chartered Society of Physiotherapy (UK), Chair of Scientific Panel, Trustee for CSP Charitable Trust (2003-2005)
- 2004 - Acupuncture Association of Chartered Physiotherapists (UK), Honorary Life Member; formerly Researcher Co-ordinator & N. I. Regional Representative

Relevant Employment Record

From year	To year	Relevant academic and research experience
2001	2004	Head of School of Rehabilitation Sciences, University of Ulster (Head of academic unit with c40 staff)
1997	2001	Head of Research Graduate School, University of Ulster (Responsible for support of all postgraduate research students n=c300 in Faculty of Social & Health Sciences & Education)
1995	2005	Professor of Rehabilitation Sciences, University of Ulster (Inaugural Chair)
1995	1998	Head of Rehabilitation Sciences Research Group, University of Ulster (Academic Manager of multidisciplinary research centre)
1995	1997	Director, Centre for Health & Social Research, University of Ulster (Academic Manager of multidisciplinary research centre)
1992	1995	Lecturer in Occupational Therapy and Physiotherapy, University of Ulster (Tenured Lecturer)
1990	1992	Post-doctoral Research Officer, University of Ulster (Rehabilitation research, inc. supervision of PhD students completing lab- and clinically-based research)

Total number of publications:

109 (excluding abstracts, proceedings or letters published)

Number of postgraduate/postdoctoral students supervised

Since 1992: Doctoral Supervision: 36 successful completions
 Post Doctoral Supervision: Senior Research Fellows (n=3), Research Officers (n=3), Research Associates (n=3)

External Research Funding

1992 -to date 5.35Million GBP inc. Programme Grant from MS Society of Great Britain and Ireland; 483k GBP Involved as lead or clinical advisor on multi-centre trials

2. Professor John Langley, Injury Prevention Research Unit Department of Preventative & Social Medicine

Contact Details:

University of Otago
Injury Prevention Research Unit,
Department Preventive and Social Medicine
PO Box 913
Dunedin 9054

Telephone 64 3 479 8511
Email John.langley@ipru.otago.ac.nz

Current Position:

Director of Injury Prevention Unit

Tertiary Education

1975 BAppSc (Physio), (Curtin)
1985 PGrad Dip Manip Ther, (Curtin)
1994 MMPhty (distinction) (Otago)
2004 PhD (Otago)

Awards/ Distinctions

1982 Health Research Council of NZ Training Fellowship
1995 Health Research Council of NZ Principal Research Fellow
2004 American Public Health Association International Distinguished Career Award

Relevant Employment Record

From year	To year	Relevant academic and research experience
1977	1978	Research Officer – Building Research Assoc. of NZ
1978	1990	Deputy Director- Dunedin Multidisciplinary Health & Development Research Unit, University of Otago
1990	Present	Director, Injury Prevention Research Unit, University of Otago

Total number of Publications

208 (excluding abstracts, proceedings or letters published or presented)

Number of postgraduate/postdoctoral students supervised

18 total (4 current)

External Research Funding

As principal investigator \$7.782 million
As co-investigator \$3.285million

3. Professor A. John Campbell, Geriatric Medicine

Contact Details

Medical & Surgical Sciences
University of Otago
Dunedin School of Medicine
PO Box 913
Dunedin 9054

Telephone 03 474 7007 ext 8506
Email john.campbell@stonebow.otago.ac.nz

Current Position

Professor of Geriatric Medicine, University of Otago; Consultant Physician and Physician in Geriatric Medicine, Otago District Health Board

Tertiary Education

1983 MD, Otago
1978 FRACP
1974 MRACP
1969 MB ChB, Otago

Relevant Employment Record

From year	To year	Relevant academic and research experience
1984	Present	Professor of Geriatric Medicine
1980	Present	Consultant Physician & Physician in Geriatric Medicine
1980	Present	Principal investigator, clinical trials (gerontology)
1995	Present	Principal investigator, falls prevention intervention trials

Total number of Publications

120 (Excluding abstracts proceedings or letters published or presented)

External Research Funding

As principal/co-investigator \$3.611million

4. Assoc. Prof. Richard Siegert, Rehabilitation Teaching and Research Unit

Contact Details:

Rehabilitation Teaching and Research Unit
Wellington School of Medicine, University of Otago
Wellington School of Medicine Building
P.O.Box 7343
Wellington

Telephone 04 3855541 ext. 5591
Email richard.siegert@otago.ac.nz

Current Position:

Head of Department – Rehabilitation Teaching and Research Unit

Tertiary Education

1977 BSc., Victoria University
1981 MSoc.Sci., University of Waikato
1981 Dip Psych. (Clin.), University of Waikato
1989 Ph.D., Victoria University
1994-95 Course in Cognitive Neuro Psychology, Queen Square, London
2000 Visiting Fellow University of Melbourne (Feb-Aug)

Relevant Employment Record

From year	To year	Relevant academic and research experience
1983	1987	Junior Lecturer, Department of Psychology, Victoria University
1991	1995	Lecturer, Department of Psychology, Victoria University
1993	1999	Director of Clinical Psychology Programme, Department of Psychology, Victoria University

Total number of Publications

59 (excluding abstracts, proceedings or letters published or presented)

Number of postgraduate/postdoctoral students supervised

Current: 2 Masters, 4 PhD
Total: 23 Masters; 9 PhD

External Research Funding

2003 –to date \$1.41M, as co-Principal Investigator or Associate Investigator

Key & Emerging Researchers

The following researchers (listed in alphabetical order) have expertise in rehabilitation research. Many have indicated that they are interested in talking a leadership role with research projects and programmes for ACC. There are over 40 members of the Rehabilitation and Disability Research Theme; the following CV's are intended only to provide some examples of the capability and research capacity available at the University of Otago for rehabilitation research. Further details will be available on request.

1. Dr Sarah Dean, Rehabilitation Teaching and Research Unit

Current Position:

Senior lecturer, Rehabilitation Teaching and Research Unit, Medicine, WSMHS

Tertiary Education:

2006 Chartered Psychologist, British Psychological Society, UK
2003 PhD, Kings College, London, UK
1994 MSc London, UK
1989 Graduate Diploma of Physiotherapy, Guy's Hospital, London, UK / Chartered Society of Physiotherapy
1986 BSc Joint Hons Birmingham, UK Psychology and Physical Education

Academic Employment Record:

2004-current	University of Otago - Senior Lecturer in Rehabilitation
1995-2004	University of Southampton, UK - Lecturer in Physiotherapy
1994-1995	BUPA Chalybeate Hospital, UK -Acting Physiotherapy Manager
1991-1994	BUPA Chalybeate Hospital, UK – Senior Physiotherapist
1989-1991	Guy's Hospital, London, UK - Physiotherapist

Total Number of Publications

25 (includes abstracts, proceedings or letters published or presented)

2. Dr Sarah Derrett, Injury Prevention Research Unit

Present Position

Research Fellow, Injury Prevention Research Unit and Lecturer, Department of Preventive and Social Medicine, for graduate course: Society, Health and Public Policy at the University of Otago

Tertiary Education

1987 BA University of Otago
1990 Dip Comp Nursing Nursing School Otago Polytechnic
1996 Post-grad Diploma University of Otago
1997 MPH University of Otago
2002 PhD University of Otago

Awards/Prizes

1996-1999 Health Services Research Training Fellow of the HRC of NZ

Academic Employment Record:

1999-June 2001 Junior Research Fellow, Preventive and Social Medicine, Otago University
July 2001-Aug 2005 Lecturer and Course Director and researcher (Health Policy and Strategy), Centre for Health Planning and Management, Keele University
2003-Aug 2005 Programme Director MBA (Health Executive), Centre for Health Planning and Management, Keele University
Sept 2005 -present Research Fellow Department of Preventive and Social Medicine, University of Otago

Total Number of Publications

23 (includes abstracts, theses and conference proceedings)

3. Dr Leigh Hale, School of Physiotherapy

Research interests

- Expertise involves both quantitative and qualitative domains focussing on clinical neurorehabilitation. Specific interests include:
- An evaluation of the ACC Tai Chi Programme for the elderly;
- Incidence of and risk factors for falls in adults with intellectual disability: a feasibility study;
- Preventing falls in people with intellectual disability: an innovative clinical placement combining theory, practice and research;
- Exploring the process of home-based stroke rehabilitation;
- Autonomic dysfunction in Multiple Sclerosis;
- Reliability of the RT3 accelerometer to measure activity in people with neurological dysfunction.

Current Position

Senior Lecturer, School of Physiotherapy, University of Otago

Tertiary Education:

1982 BSc Cape Town (South Africa)
1993 MSc Witwatersrand (South Africa)
2002 PhD Witwatersrand (South Africa)

Awards, Distinctions:

Supervisor of a final year under-graduate physiotherapy research project which won the New Zealand Physiotherapy Society ML Roberts national prize for the best 4th year project. (2002)

Advanced Practitioner Membership (Neurology) of the New Zealand College of Physiotherapy (2005)

Relevant Employment Record:

1989-2000 Lecturer, University of Witwatersrand, Johannesburg
1998-2002 PhD at University of Witwatersrand, Johannesburg
2000-2003 Lecturer at University of Otago
2004-Present Senior Lecturer at University of Otago, Dunedin

Research Grants Received

1997-2006 Total external research funding as principle investigator: NZ\$692,771

Number of Publications

20 (not including abstracts, proceedings or letters published or presented)

Number of postgraduate students supervised:

16 (7 current)

4. Dr Phil Handcock, School of Physical Education

Research interests, past and ongoing:

- the prevention and rehabilitation of athletic injuries
- the Rugby Injury and Performance Project (RIPP) with the Injury Prevention Unit (IPRU)
- investigation of the effect of treadmill exercise on postural instability in older adults
- criteria for return-to-play following injury in rugby union
- preventive conditioning programmes to reduce the incidence of serious knee injury in team sports
- utilising motor control paradigms with injury prevention and rehabilitation contexts
- exploring reflex modulation and contribution to force production and acceptance during athletic movements, in particular the backward to forward stepping movement common to many sports
- examining how exercise affects the performance on screening tests for sports related concussion
- knowledge, attitudes and behaviours concerning sports injury in selected NZ teams sports.

Tertiary Education:

2003 PhD (Otago) (Neurophysiology and injury mechanisms)
1986 MSc (Alberta) (Athletic injuries)
1980 BPhEd (Otago) (Physical education)

Academic Employment Record:

1992 – present, Lecturer, School of Physical Education, University of Otago

Research Grants Received:

1992-2007 \$48,927 as principal investigator.

Funding Body	Project Title	Year
Otago Research Grant	Does exercise affect the performance of selected neurological screening test items for sports related concussion? (Tony Schneider lead investigator)	2007
University of Otago, School of Physical Education	Influence of static lower limb joint positions on H-reflex modulation	2003
OU Division of Science Research Grant	Facilitating proprioceptive recalibration following musculoskeletal injury	1994
Sports Science NZ	Field Testing Literature Review	1992
OU Division of Science Research Grant	Quantification of Postural Control and the mechanisms of postural maintenance,	1992

Total number of publications:

13, includes refereed journal articles, book chapters and refereed conference proceedings

Number of postgraduate students supervised:

4 current, 7 completed.

5. Dr Lynnette Jones, School of Physical Education

Research interests, past and ongoing:

- the development of obesity and metabolic changes in the overweight/obese population, using various biochemical analyses of metabolic pathways in skeletal muscle and adipose tissues
- effects of aquatic and land-based exercise on carbohydrate and lipid metabolism in overweight women
- exercise programming for health benefits in special populations, particularly the obese/overweight and diabetic populations
- exercise and bone metabolism
- risk factors for the development of metabolic syndrome in spinal cord injured males

Tertiary Education:

2003 PhD (Biomedical Science)

1999 BSc (Biochemistry)

1997 BPhEd (First class honours) (Exercise Physiology/Metabolism)

Relevant Employment Record:

2002 – present Lecturer, School of Physical Education, University of Otago

2000 – 2002 Teaching Fellow, School of Physical Education, University of Otago

Awards, Distinctions:

University of Otago Postgraduate Scholarship 1997-1999

Research Grants Received:

1999- 2007 \$40,216 as principal investigator.

Funding Body	Project Title	Year
University of Otago, School of Physical Education,	Non weight-bearing and weight-bearing exercise intensity and adipose tissue metabolism in postmenopausal diabetic women	2005
Otago University Research Grant	Substrate utilisation during self-paced aqua-jogging and treadmill walking in obese and nonobese women	2004
Lamar Trust	Metabolic syndrome in spinal cord injured men	1999

Total number of publications:

12, includes refereed journal articles, book chapters and refereed conference proceedings

Number of postgraduate students supervised:

2 current

6. Dr Stephan Milosavljevic, School of Physiotherapy

Research Interests

- An experienced rural clinician with a special interest in occupational biomechanics, ergonomics and injury prevention in the rural workplace.
- Leads a growing rural research team with a focus on ergonomics, biomechanics, identification of injury risk, and prevention of injury.
- Has extensive contacts within the rural community of Otago/Southland and is a prime facilitator for recruitment, development and design of a number of rural research programmes.
- Has collaborations with researchers at the spinal occupational biomechanics laboratory at the University of Waterloo in Ontario, Canada on cumulative spinal loading.
- Other collaborations involve colleagues at the University of Umea in Sweden looking at All Terrain Vehicle risk factors, as well as the Injury Prevention Research Unit and the Department of Preventive and Social Medicine at the University of Otago to look at ergonomic interventions within the NZ rural sector.
- Evaluating the reliability and validity of selected clinical assessment procedures in Musculoskeletal Physiotherapy.

Current Position

Senior Lecturer and Head of Musculoskeletal, Occupational Health and Clinical Research Focus Group at the Centre for Physiotherapy Research at the School of Physiotherapy, University of Otago

Tertiary Education:

1975 BAppSc (Physio), Curtin
1985 PGrad Dip Manip Ther, Curtin
1994 MMPhty (distinction), Otago
2004 PhD, Otago

Awards, Distinctions:

2005 Vernon Willey Fellowship

Relevant Employment Record:

1996- to date Senior Lecturer School of Physiotherapy, University of Otago
1999-2004 PhD – Occupational Biomechanics

Research Grants Received

1999-2007 Total external research funding as principle or co-investigator:
NZ\$667,873

Funding Body	Project Titles	Year/s
Otago University Research Grant	Whole body vibration exposure in rural all terrain vehicle (ATV) use	2004
HRC	Cumulative loads on the body in wool-harvesting	2004
Vernon Willey Trust	Cumulative loads on the body in wool-	2005

	harvesting	
UORG	Co-Investigator – A comparison between an upright shearing process and traditional stooped shearing process	2006
UORG	Rural workers experiences of low back pain: exploring why they continue to work.	2006
HRC	Co-investigator – Effective occupational health interventions in agriculture: key characteristics of their development and implementation in New Zealand	2006

Number of Publications

23 (Includes abstracts, proceedings or letters published or presented)

Number of postgraduate students supervised:

16 (5 PhD current)

7. Dr Debra Waters, School of Physical Education

Research interests, past and ongoing:

- public health research, focusing on loss of skeletal muscle mass and function during ageing
- uses epidemiologic and basic science research foundations
- evaluating Tai Chi as 'falls prevention'
- influence of body composition on falls and gait disturbances in the elderly
- impact of aqua aerobics on gait, balance and strength in the elderly

Tertiary Education:

1993 PhD (Exercise Physiology)
1985 B.S. (Zoology/Physical Education)

Relevant Employment Record:

2006 – present Co-Director, Life In NZ Applied Research Unit (LINZ), School of Physical Education, University of Otago

2005 – present Senior Lecturer, School of Physical Education, University of Otago

1998 - 2005 Co-Director of the Ageing and Genetic Epidemiology Research Unit, Research Assistant Professor, Epidemiology and Preventive Medicine, Dept of Internal Medicine, University of New Mexico,

1995-1998 Research Scientist, Endocrinology and Metabolism, Dept of Internal Medicine, University of New Mexico

1994-1995 Research Fellow, General Clinical Research Center, University of New Mexico

1993-1994 Post-doctoral Fellow, Dept of Internal Medicine, Endocrinology and Metabolism, University of New Mexico

Awards, Distinctions:

2001-2002 Glenn Peake General Clinical Research Center award for Outstanding Clinical Research at the University of New Mexico

Research Grants Received:

2005-2007 NZ\$33,000 as principal investigator
2002-2005 US\$320,000 as principal investigator

Funding Body	Project Title	Year
University of Otago Research Committee	An ACC evaluation of Tai Chi in the Elderly: Body Composition	2006
ACC	Aqua Aerobics in the Elderly: Effects on Strength and Balance	2005
National Institutes of Health	Mitochondrial function and mtDNA deletions in Sarcopenia - supplement	2005
National Institutes of Health	Mitochondrial function and mtDNA	2003

Health	deletions in Sarcopenia	
National Institutes of Health	Mitochondrial function and mtDNA deletions in Sarcopenia - supplement	2003
University of New Mexico Research Allocation Committee	HPA, GH/IGF-1 and Leptin Alterations in Elderly Obese Subtypes	2002

Total number of publications:

41, includes refereed journal articles, book chapters and refereed conference proceedings

Number of postgraduate students supervised:

3 current

Appendix A: Examples of Current Funded Research

Theme Member	Agency	Amount
<p>Prof David Baxter <i>As co-investigator</i></p> <p>Exercise and auricular electroacupuncture: a subject-and assessor-blind feasibility randomised controlled trial of the effectiveness of a combined approach for chronic low back pain</p>	NI R&D Office/RRG (UK)	463,840
<p>Prof A John Campbell <i>PI or co-Investigator</i></p> <p>Interventions to prevent falls and injury in elderly people with impaired vision</p> <p>Falls assessment clinical trial (FACT)</p> <p>Masonic Postgraduate Fellowships: Dr Philippa Carter</p> <p>Masonic postgraduate fellowship: Dr Nikki Kerruish</p> <p>Masonic Postgraduate fellowship: Dr Tony Walls</p> <p>Evaluation of a home exercise programme to prevent falls in older people (effectiveness and economic evaluation)</p> <p>Injury Prevention Research</p>	<p>HRC project 2001</p> <p>Lottery 2005</p> <p>Freemasons 2003</p> <p>Freemasons 2001</p> <p>Freemasons 2001</p> <p>ACC 2000</p> <p>extension to HRC 01/388</p>	<p>938,453</p> <p>54,035</p> <p>58,513</p> <p>50,668</p> <p>52,728</p> <p>2,456,999</p>
<p>Dr Sarah Dean <i>Co-investigator</i></p> <p>Exploring the housing needs and experiences of people with disability in New Zealand</p> <p>International cross cultural survey of musculoskeletal disorders and causes of disability</p>	<p>HRC 2005</p> <p>HRC IIOF 2006</p>	<p>372,977</p> <p>181,650</p>
<p>Prof John Langley <i>As Principal Investigator</i></p> <p>Injury prevention research</p> <p>HRC Programme extension</p>	<p>HRC Prog 2000-03</p> <p>2003-2006</p>	<p>4,777,358</p> <p>2,456,999</p>

ACC emerging injury issues and strategic advice	2004	69,478
National all cause mortality and hospitalisation injury databases	ACC 2004	115,942
Prospective Injury Outcomes Study (PIOs); Development Phase	HRC SD 2003	121,107
Epidemiology of work-related slip, trip and fall injuries	HRC tender 2003	109,934
Evaluating the impact of the FarmSafe Programme on the safety culture of Farming	ACC2003	50,000
Hazardous drinking early intervention project (EIP)	ALAC 2002	
Missing cyclists	Road Safety 2002	27,756
Violence through adulthood - Development and pilot phase	Lotteries 2001	53,829
<i>As co-investigator</i>		
New Zealand Drivers Study: A follow-up study of newly licensed drivers	(Co-funded by HRC, ACC & RST) 2005	399,999
Improvements in the validity of ICD based Injury Severity Scores (ICISS) on which NZIPS official indicators are based	SNZ 2005	70,537
A brief child safety intervention: reducing injury among under 5's	ACC 2004	439,707
Identification of risk factors for non-submersion swimming injury	ACC 2004	504,435
New Zealand Drivers Study: A follow-up study of newly licensed drivers	(3 co-funders - HRC, ACC & RTSA 2004)	599,999
Role of alcohol in serious unintentional domestic fire incidents	Fire service 2003	86,268
Prevention of domestic fire injury in New Zealand with specific reference to vulnerable groups	Fire service 2002	39,135
Effective interventions to reduce risk of fire-related injury	HRC SD 2001	91,408
IPRU Programme	ACC 2001	928,076
Improved construction-industry health and safety through surveillance system development	HRC TF 2000	125,076

<p>Assoc Prof Richard Seigert <i>Co-Investigator</i> Cognition and Psychopathology in Maori Diagnosed with Schizophrenia: 18 month follow-up Development of a Consumer Self-Assessed Measure of Outcome Goal setting in rehabilitation: two new approaches in acquired brain injury Contract for review of tools and test for assessment of TBI Cognition and psychopathology in Maori diagnosed with schizophrenia.</p>	<p>HRC Maori 2005 HRC MHR&D 2005 HRC SD 2005 ACC 2004 HRC SD 2003</p>	<p>766,596 366,305 125,000 60,000 60,809</p>
<p>Dr Stephan Milosavljevic <i>Co-investigator</i> Effective occupational health interventions in agriculture: key characteristics of their development and implementation in New Zealand Cumulative loads on the body in wool harvesting Cumulative loads on the body in wool harvesting</p>	<p>HRC 2006 Vernon Willey Trust Scholarship HRC 2004 TOTAL</p>	<p>392,883 60,000 121,132 \$17,489,031</p>