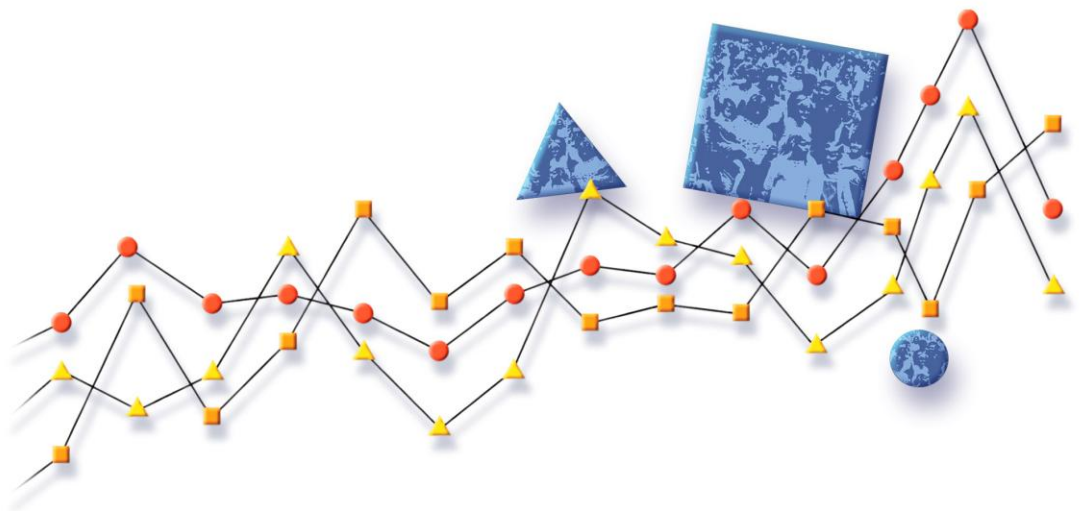
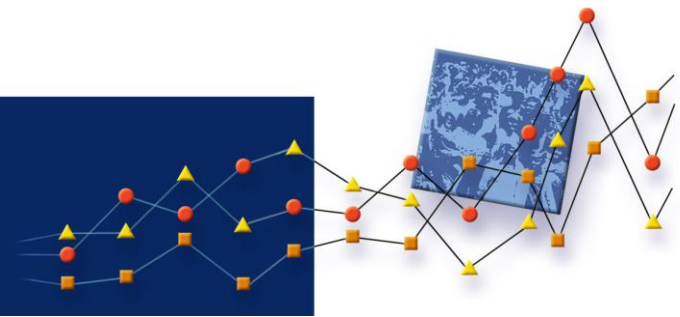


Centre for Public Health Research

Annual Report 2009



Contact Us



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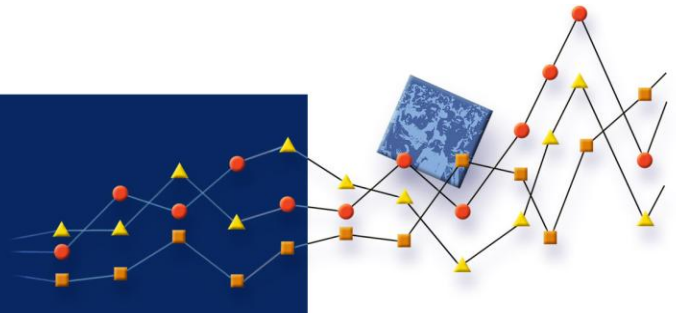
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This report can also be downloaded from our website at:

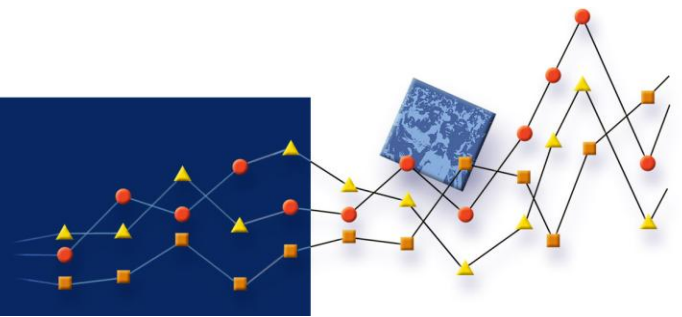
<http://publichealth.massey.ac.nz/>
<http://www.publichealth.ac.nz/>

Contents



Staff	4
Introduction	7
The Year in Review	9
Research Projects	18
Training	67
Presentations	73
Publications	77
Seminars	83
Advisory Committees	85
International Visitors	88
Acknowledgements	89

Centre for Public Health Research



Directors

Neil Pearce – Professor and Director

Jeroen Douwes – Professor and Co-Director

Support Staff

Audrey Hayman – PA to Director

Clare Scott – PA/Administrator

Haidee MacKenzie – Laboratory Technologist

Hilary Nuttall – Administrator

Khoon Ching Wong – Biostatistician

Soo Cheng – Biostatistician

Professorial Research Fellows

Allan Smith – Professor

Barry Borman – Associate Professor

Bill Glass – Professor

Cindy Kiro – Associate Professor and
Head of School of Public Health

Don Matheson – Professor

Researchers

Amanda Eng – Doctoral Research Fellow

Andrea 't Mannetje – Senior Research Fellow

Anna Matheson – Research Fellow

Bianca Claas – Research Fellow

Bradley Prezant – Research Fellow

Christine van Dalen – Senior Research Fellow

Collin Brooks – Doctoral Research Fellow

David McLean – Senior Research Fellow

David Sinclair – Senior Research Fellow

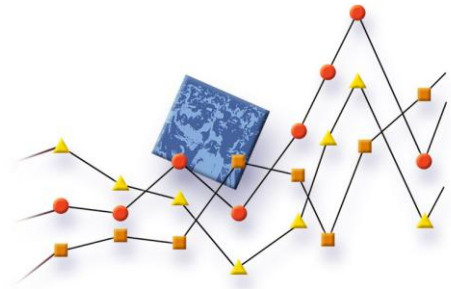
Elizabeth Harding – Research Nurse

Erin Holmes – Research Fellow

Fiona McKenzie – Doctoral Research Fellow

Heather Duckett – Research Nurse

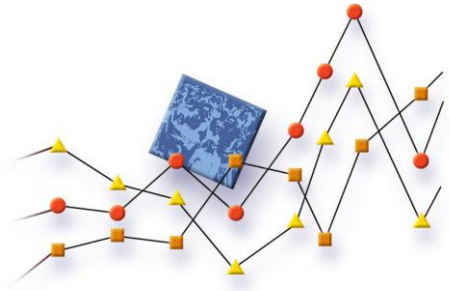
Katharine Haddock – Research Assistant



Kerry Cheung – Research Fellow
Leigh Emmerton – Research Nurse
Lis Ellison-Loschmann – Māori Health Research Fellow
Marine Corbin – Doctoral Research Fellow
Mark Wagstaffe – Research Fellow
Michelle Gray – Māori Health Research Fellow
Naomi Brewer – Doctoral Research Fellow
Ridvan Firestone – Pacific Health Research Fellow
Shirley-Belle Brogan – Research Nurse
Sunia Foliaki – HRC Postdoctoral Research Fellow
Tania Slater – Māori Health Research Fellow
Tracey Whaanga – Māori Health Research Assistant

Casual Research Assistants and Field Workers

Aimee Crothall	Anna Stewart
Annabel Gormack	Anne O’Dowd
Brenda Chilvers	Brendon Gerrard
Candace Graham	Colin Barr
Colleen Kem	Courtney Harvey
Dorothy Connor	Finamoa Mailau
Giovanna Le Gros	Huia Dixon
Joel Cosgrove	Joy Stubbs
Kelly Gray	Lucy Shum-Pearce
Marika Pratley	Megan Virtue
Melissa Harvey	Miria Hudson
Nicky Curran	Olivia Lendich
Pam Miley-Terry	Phoebe Taptiklis
Phoebe Tupu	Rachel Haas
Rachel Powell	Samuel Keer
Siloma Masina	Sue Adams
Susan Cook	Tatum Gerrard
Vicki Maguire	



Honorary Research Fellows

Ate Moala – Pacific Health

Chris Walls – Occupational Health

Deborah Read – Public Health

Diana Best – Cancer Control

Evan Dryson – Occupational Health

James McGlothlin – Occupational Health

Nancy Krieger - Epidemiology

Paul White – Public Health

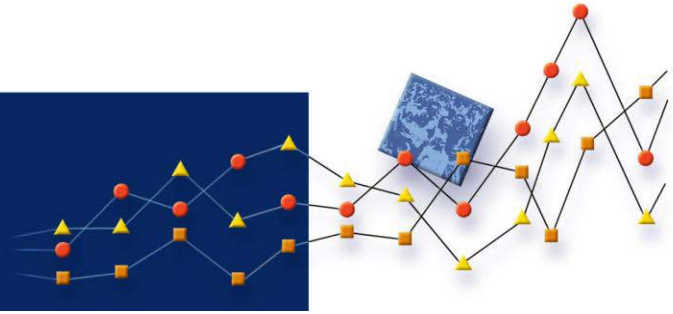
Phil Shoemack – Public Health

Wendyl D'Souza – Neuroepidemiology

Research School of Public Health

Xiang Ting Chen (Jo) – IT Consultant

Introduction



The Centre for Public Health Research (CPHR) is a multi-disciplinary team of researchers based on the Massey University Wellington campus. It is part of the Massey University Research School of Public Health, together with the Research Centre for Māori Health & Development, the Sleep/Wake Research Centre, the Social and Health Outcomes Research and Evaluation (SHORE) Centre and Te Ropu Whariki.

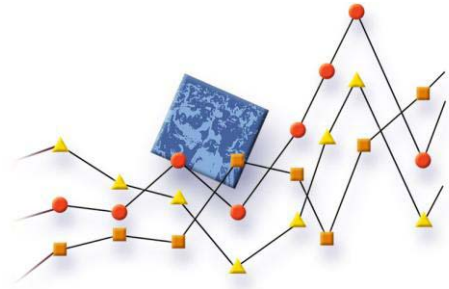
CPHR was established in 2000. Our research programme covers all aspects of public health research, but with a focus on:

- Non-communicable disease (respiratory disease, cancer, dermatitis, diabetes)
- Occupational health
- Environmental health
- Māori health
- Pacific health
- Socioeconomic determinants of health
- Public health surveillance

CPHR recognises the importance of the Treaty of Waitangi and its relevance to our work. We have a long history of involvement with Māori research and policy development including the Māori Asthma Review, the Wairarapa Māori Asthma Project, and the Hauora Tamariki project. Much of our Māori health research is done in collaboration with the Research Centre for Māori Health & Development. We are also committed to employing and training Māori health researchers.

The Centre is based in the College of Humanities and Social Sciences, but we also work with researchers at other Massey Colleges and campuses, including the Veterinary Epicentre, and the Institute of Food, Nutrition and Human Health (IFNHH).

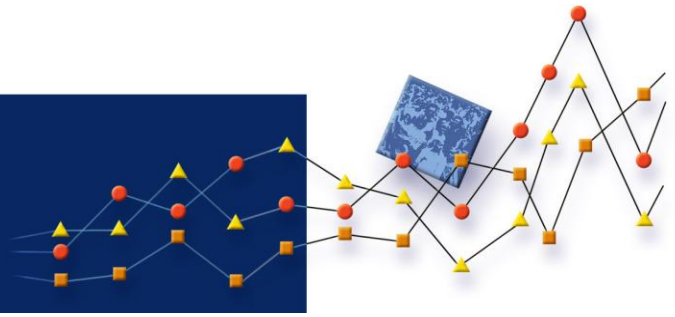
We also work with researchers at a number of other institutions, including:



- Malaghan Institute for Medical Research (MIMR)
- Department of Paediatrics, Auckland Medical School
- Department of Public Health, Wellington School of Medicine (University of Otago)
- Health & Disability Intelligence (Ministry of Health)
- Airway Research Centre (John Hunter Hospital, Newcastle, Australia)
- Institute for Risk Assessment Sciences (IRAS), University of Utrecht, (The Netherlands)
- US National Cancer Institute (NCI)
- Centre de Recerca en Epidemiologia Ambiental (CREAL, Barcelona, Spain)
- Postgraduate School of Occupational Health (Milan, Italy)
- Department of Biomedical Sciences and Human Oncology, University of Turin (Italy)
- Department of Epidemiology and Preventive Medicine, Monash University (Melbourne)
- Department of Social Medicine, University of Bristol (United Kingdom)
- International Agency for Research on Cancer (Lyon, France)
- School of Occupational and Environmental Health, University of British Columbia (Canada)
- University of Groningen (The Netherlands)
- Department of Epidemiology, University of Kentucky (USA)
- Vrije Universiteit (The Netherlands)
- Aarhus University (Denmark)
- Occupational and Environmental Health Sciences, Purdue University (Indiana, USA)

Although our main activity is research, we also work with organisations such as the Ministry of Health (MoH), Department of Labour (DoL), the Accident Compensation Corporation (ACC) and various non-governmental organisations, unions and companies to ensure that the findings of research are relevant to, and applied in, public health policy. In particular, we have served on a number of advisory committees for the Health Research Council, the MoH, the Minister of Health, ACC, the Minister for ACC, the DoL and the Minister of Labour.

The Year in Review



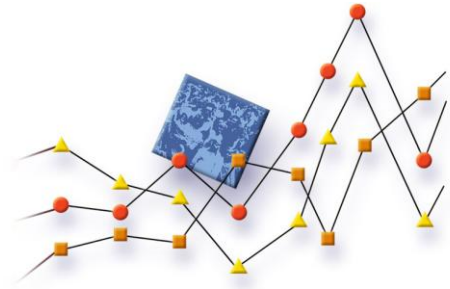
The last year has seen major developments in the work of the Massey University Centre for Public Health Research (CPHR) with considerable success in obtaining new research funding.

Despite the current severe shortage of health research funding, we had a successful year with more than \$3 million of new funding, including two new HRC project grants for cancer research, and two occupational health research grants from an HRC/Department of Labour Joint Research Portfolio, as well as grants from the Department of Labour, the World Health Organisation (WHO), The Rockefeller Foundation, Nga Pae o te Māramatanga (University of Auckland), the Asthma and Respiratory Foundation of New Zealand, the Cancer Society of New Zealand, the Department of Labour, the Alcohol Advisory Council, the Maurice & Phyllis Paykel Trust, Genesis Oncology, Lotteries Health Research, the Ministry of Health and the Massey University Research Fund (MURF).

These grants represent a major expansion of our research programmes, particularly in occupational health and in cancer, in addition to our ongoing programmes of research in respiratory disease, and other areas of public health, Māori health, and Pacific health research. These programmes are described in more detail in the following pages.

We wish to thank all research collaborators involved in our various projects who have played an important role in ensuring a productive year, the agencies who have funded this programme of research, and all those who have participated in our studies. We also wish to thank Massey University and its staff for its excellent support for our research programme.

Respiratory Disease



During 2009 we continued work on our major HRC-funded study of factors in farming that protect against asthma in farmers' children and their parents. We are now conducting Phase III of the study which is examining the immune status of babies born on farms and a group of control babies.

We are examining the hypothesis that endotoxin exposure later in life may reverse pre-existing allergies and allergic diseases in an HRC-funded prospective cohort of previously unexposed allergic adults who are starting a work career in industries with moderate to high endotoxin exposures.

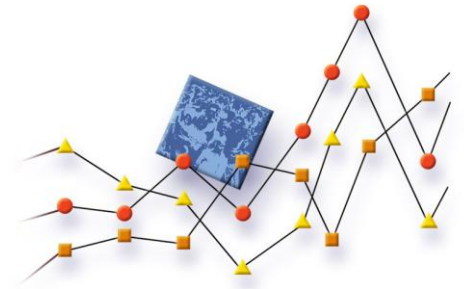
Our new HRC Programme Grant for Building Research in Occupational Health and Safety in New Zealand (BROHNZ) also includes funding for a major study of occupational asthma in sawmill workers. We have also received funding from the HRC/Department of Labour (DoL) for a study of exposure to airborne hazardous substances in the wood conversion sector.

We are also continuing to work on the International Study of Asthma and Allergies in Childhood (ISAAC). Neil Pearce is a member of the ISAAC Executive and the ISAAC Steering Committee. He was first author of the Phase III report on global trends in asthma prevalence that was published in *Thorax* in 2007. Sunia Foliaki is Regional Coordinator for Oceania and a member of the Steering Committee.

During 2009 Christine van Dalen also continued work on a study of the role of the lung macrophage in asthma pathology, and commenced a study of the role of the neutrophil in airways inflammation, funded by the Asthma and Respiratory Foundation of New Zealand (ARFNZ).

In 2009, Collin Brooks continued his PhD research on the role of innate immunity in asthma. The work is being conducted in collaboration with the Malaghan Institute for Medical Research, with funding support from the ARFNZ.

Cancer



The last year has seen a major expansion of our cancer research programme. This includes ongoing studies of occupational cancer, and a case-control study of breast cancer (with funding from Lotteries Health Research, the Cancer Society of New Zealand, and the Health Research Council).

In 2008 and 2009, Lis Ellison-Loschmann (with Fiona McKenzie, Naomi Brewer, Barry Borman, Anna Matheson, Neil Pearce, and others) obtained funding from the HRC for four new major cancer research projects: (i) inequalities in breast cancer survival; (ii) a case-control study of risk factors for stomach cancer in Māori; (iii) inequalities in cervical cancer survival (Naomi Brewer's PhD research programme); and (iv) the role of primary care for Māori with cancer (Tania Slater's PhD research programme).

In addition, we have been conducting a number of other analyses of cancer survival including Fiona McKenzie's PhD research

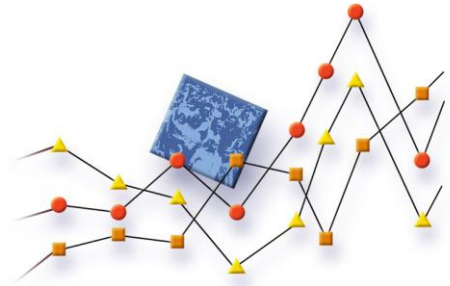
on disparities in breast cancer survival, and Riz Firestone's research on ethnic differences in disease presentation for uterine cancer in New Zealand.

A study of human papilloma virus (HPV) prevalence is being conducted in Fiji (by Sunia Foliaki and Naomi Brewer), and Sunia Foliaki is conducting research on cancer registration and incidence in Tonga, Fiji Islands, Cook Islands and Niue (with Diana Best and Neil Pearce).

Andrea 't Mannetje is conducting an HRC/DoL funded study on workplace exposures to carcinogens in New Zealand.

Andrea 't Mannetje also has a US National Institutes of Health (NIH) grant for a study of occupational risk factors for Non-Hodgkin's Lymphoma (NHL), and David McLean has an NIH grant for a study of occupational exposure to electromagnetic fields (EMFs) and risk of glioma and meningioma.

Occupational and Environmental Health



In 2008 Neil Pearce was awarded a new Programme Grant from the Health Research Council (HRC) for Building Research in Occupational Health in New Zealand (BROHNZ). The programme includes five major new studies on: (i) the effects of exposures on new-onset allergies and asthma, and on lung function, in newly-recruited wood industry workers (David McLean); (ii) prevalence and risk factors of work-related dermatitis in cleaners (Jeroen Douwes); (iii) modifiable risk factors for congenital malformations (Andrea 't Mannelje); (iv) occupational exposures and occupational health in Māori (Lis Ellison-Loschmann); and (v) workplace exposures to carcinogens in New Zealand (Andrea 't Mannelje). This programme has been greatly enhanced by the arrival of Professor Bill Glass, who is providing advice on clinical aspects of all of our occupational health studies.

During 2009 we also received funding from the HRC/DoL for a study of dust exposure in the wood conversion sector (Jeroen Douwes), and for a study of indicators for surveillance of occupational disease

(Barry Borman). In addition, Jeroen Douwes has received funding from the DoL for a study of asbestos exposure levels in demolition sites.

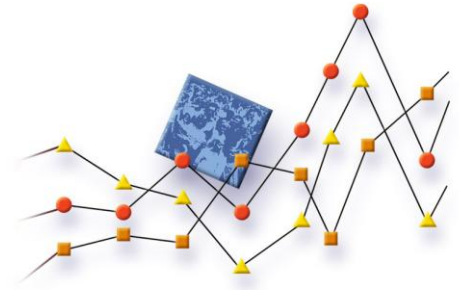
Andrea 't Mannelje and David McLean are continuing the development of a New Zealand Job-Exposure-Matrix (NZJEM) which will be used to assess occupational exposures on the basis of work histories.

Andrea 't Mannelje also has a US National Institutes of Health (NIH) grant for a study of occupational risk factors for Non-Hodgkin's Lymphoma (NHL), and David McLean has an NIH grant for a study of occupational exposure to electromagnetic fields (EMFs) and risk of glioma and meningioma.

Andrea 't Mannelje is also conducting an HRC-funded study of dioxin exposures and health effects in former phenoxy herbicide production workers, and a similar study in firefighters.

Finally, Andrea 't Mannelje is conducting a survey of environmental persistent organic pollutants (POPs) in breast milk, with funding from the Ministry of Health.

Māori Health



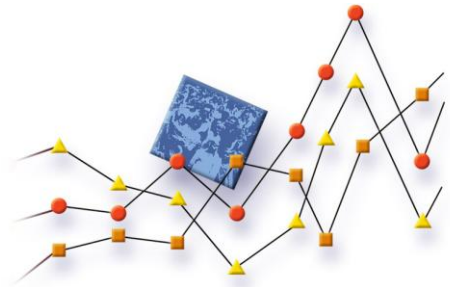
In 2007, Dr Lis Ellison-Loschmann returned from the Centre de Recerca en Epidemiologia Ambiental (CREAL) and the Institut Catalán d'Oncologia (ICO) in Barcelona, Spain, where she spent two years as part of her four-year HRC-funded Postdoctoral Fellowship for studies of cancer epidemiology in Māori.

Lis is conducting a case-control study of breast cancer in Māori, and she recently (with Fiona McKenzie, Naomi Brewer, Barry Borman, Anna Matheson, Neil Pearce, and others) obtained funding from the HRC for four new major cancer research projects: (i) inequalities in breast cancer survival; (ii) a case-control study of risk factors for stomach cancer in Māori; (iii) inequalities in cervical cancer survival (this is Naomi Brewer's PhD research programme); and (iv) the role of primary care for Māori with cancer.

In 2009 Associate Professor Cindy Kiro returned from spending six years as the Children's Commissioner, and has re-established her research programme in Māori health. This has included a review paper for the Ministry of Health on obesity in Māori, and a study of Māori households and family wellbeing, funded by Nga Pae o te Māramatanga (University of Auckland).

In addition, Barry Borman has been contracted by the Ministry of Health to provide epidemiological services and advice for the Māori Health Directorate.

Pacific Health



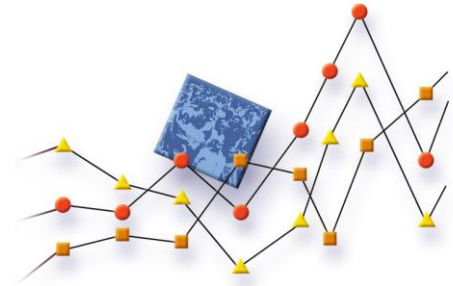
Dr Sunia Foliaki is coordinating the ISAAC Phase III study in the Pacific. Further studies include an asthma self-management trial in Tonga funded by the Wellcome Trust.

Dr Foliaki was awarded an HRC Pacific Health Postdoctoral Fellowship for studies of cancer in Pacific populations, for research to be conducted during 2007-2010. This includes an HRC-funded study of cancer in Tonga, Samoa, Niue, and Fiji.

He is also conducting (with Naomi Brewer) a survey of Human Papilloma Virus (HPV) prevalence in Fiji.

In 2009 Dr Ridvan Firestone completed an HRC-funded Postdoctoral Fellowship in Pacific Health research. Her work included the establishment of the New Zealand internet-based birth cohort study (www.elfs.org.nz), and the conduct of the Pacific arm of our case-control study of early life factors and breast cancer risk. She is now continuing her work with the Centre including the development of a study of risk and protective factors for female reproductive cancers.

Other Non-communicable Disease



Other non-communicable disease research has included a series of analyses of mortality and morbidity in patients with diabetes.

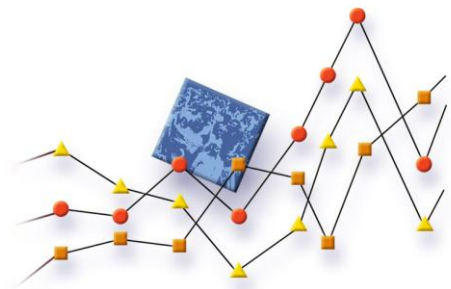
We have also conducted a series of analyses in collaboration with the New Zealand Hepatitis Foundation to examine mortality, cancer incidence, and diabetes incidence in patients screened for diabetes using the HbA_{1c} test.

In 2008 the Early Life Factors Study of Childhood Diseases (www.elfs.org.nz) commenced with a pilot study in the Wellington region. This study will assess associations between a wide range of early life exposures, events, and lifestyle factors, and a broad range of health outcomes later in life.

Associate Professor Barry Borman is the Director of The New Zealand Birth Defects Monitoring (NZBDMP). The programme began in 1975 and has been a member of the International Clearinghouse for Birth Defects Surveillance and Research (ICBDSR) since 1979 (www.icbdsr.org).

The NZBDMP monitors the occurrence of all live births delivered or treated in a publicly funded hospital. Data on stillbirths and terminations of pregnancy with birth defects are also added to the database. The data has been used for a variety of epidemiological studies and is contributed to the annual reports of the ICBDSR.

Other Public Health Research



Our more general programme of public health research has been enhanced by the development of public health surveillance projects by Associate Professor Barry Borman, and the arrival of Professor Don Matheson (former Deputy Director-General for Public Health at the Ministry of Health).

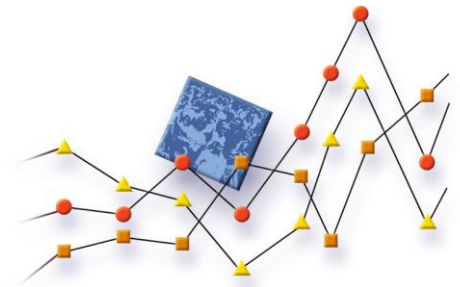
Public health surveillance, lead by Associate Professor Barry Borman (previously Manager, Public Health Intelligence at the Ministry of Health) is a major new area of activity for CPHR. Barry has research contracts from the Ministry of Health to evaluate the chemical injury surveillance system, establish a hazardous substances surveillance system and a system for monitoring environmental health indicators, from the HRC-Department of Labour to establish an occupational disease surveillance system, and ALAC to scope a surveillance system for alcohol consumption and health related harm.

Don Matheson has been granted funding from the World Health Organisation (WHO) for a project on enhancing food security in

the Pacific region. The Food Secure Pacific project, initiated by the Pacific Health Ministers, is a long-term, multi-sectoral approach to improving food security throughout the Pacific by building awareness of food security issues among health, trade, environmental, agricultural and food industry sectors, and forging a shared consensus and coherent policy direction across agencies and Ministries related to food. In 2010, Pacific leaders will come together to discuss a Pacific Declaration on Food Security and an accompanying Action Plan.

Don (with Anna Matheson) has also received a grant from the Rockefeller Foundation for a study of global experiences, inside and outside of the health system, on overcoming barriers to universal health.

Teaching



The Massey University School of Public Health Master of Public Health (MPH) Programme includes a Postgraduate Diploma in Public Health (PGDipPH) which commenced in 2005; it involves the equivalent of one year fulltime study (a total of 120 points with two 30 point papers being compulsory – the core paper, and a research project). The programme involves an applied approach to public health education and training that is different from existing public health qualifications, integrating public policy more strongly with public health, and also providing the opportunity for a greater emphasis on Māori health, Pacific health, and other areas such as occupational and environmental health.

An MPH-by-thesis option has been available since 2004 for candidates who have already completed an equivalent of the PGDipPH.

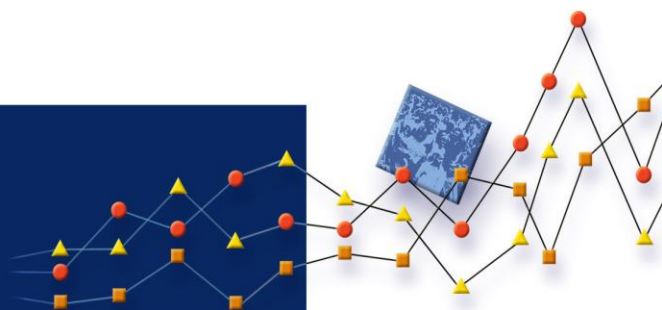
In 2010, we will commence the teaching of the new MPH

(Biosecurity) course which will be offered by distance learning for medical doctors from the Asia-Pacific region; this will be taught jointly with the new MVM (Biosecurity) course which will be offered to veterinarians from the same region. About half of the content for each programme will be taught jointly, with doctors and veterinarians training together.

In 2008, Neil Pearce commenced a three-year term as President of the International Epidemiological Association. One of his priorities is training of epidemiologists in developing countries and he has developed (with assistance from Naomi Brewer and Hilary Nuttall) the Annual IEA International Course in Epidemiological Methods. The first course was held in Jaipur (India) in April 2009, and the second course will be held in Riyadh (Saudi Arabia) in April 2010. It is anticipated that the 2011 course will be held in Africa.

Current Research Projects

Projects completed during 2008



1. Chemical injury surveillance strategy

AIMS:

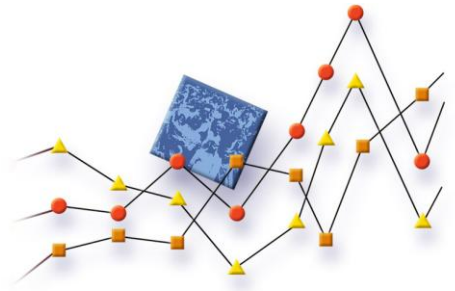
1. Review the international literature on chemical injury surveillance (CIS) methods and systems.
2. Evaluate the current chemical injury surveillance undertaken in New Zealand and recommend three future options CIS, including any new datasets required.
3. Conduct a stakeholders consultation on the options identified.

FUNDING: Ministry of Health

RESEARCHERS: Barry Borman

KEY WORDS: Surveillance, Chemical injury, Hazardous substances

2. Occupational cancer in adult New Zealanders (OCANZ)



AIMS:

1. To obtain an overview of the importance of occupational factors for bladder cancer, non-Hodgkin's lymphoma, leukaemia and lung cancer in New Zealand.
2. To quantify the proportion of cases due to known occupational causes.
3. To identify new occupational causes of these cancers.

FUNDING:

Health Research Council of New Zealand (HRC), Lotteries Health Research, Cancer Society of New Zealand, Accident Compensation Corporation (ACC)

RESEARCHERS:

Evan Dryson, Chris Walls, David McLean, Neil Pearce, Soo Cheng, Andrea 't Mannetje, Fiona McKenzie, Heather Duckett, Marine Corbin

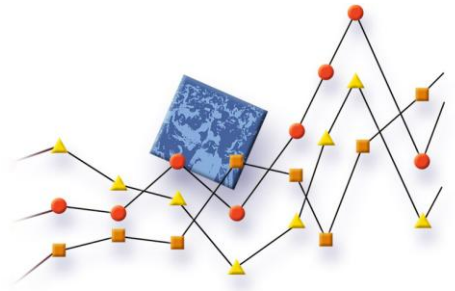
COLLABORATORS:

Professor Hans Kromhout (IRAS, University of Utrecht, The Netherlands), Dr Paolo Boffetta (International Agency for Research on Cancer, Lyon, France), Dr Aaron Blair (National Cancer Institute, Washington DC, USA), Professor Chris Cunningham (Research Centre for Māori Health & Development)

KEY WORDS:

Occupation, Cancer, Bladder Cancer, Non-Hodgkin's Lymphoma, Leukaemia, Lung Cancer

3. Women's occupational health and safety in New Zealand



AIMS:

1. To give an overview of what is currently known about women's occupational health and safety in New Zealand.
2. To provide background information on how sex and gender issues can influence women's and men's occupational health and safety.
3. To provide a historical context of why women's occupational health and safety has received little attention in the past.
4. To provide information on the difference in occupational exposure profile between female and male workers and its consequences for women's occupational health and safety.
5. To provide information on the prevalence of occupational health and safety issues in women and men.
6. To discuss the reasons behind the observed differences between women's and men's occupational health.
7. To give an overview of New Zealand's occupational health and safety practice and programmes in relation to women's occupational health and safety.
8. To identify the gaps in our knowledge of women's occupational health and safety in New Zealand.
9. To form a first step towards a better understanding of the issues around women's occupational health and safety in New Zealand.

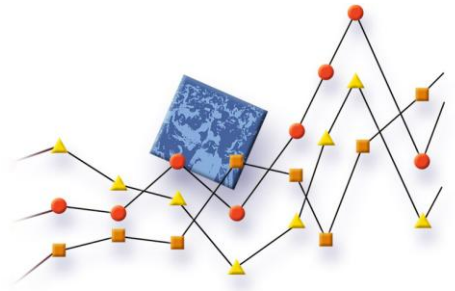
FUNDING: National Occupational Health and Safety Advisory Committee (NOHSAC)

RESEARCHERS: Andrea 't Mannetje, Tania Slater, David McLean, Amanda Eng, Jeroen Douwes

COLLABORATORS: Celia Briar

KEY WORDS: Occupational Health, Occupational Injury, Women's Health

4. Alcohol facts and surveillance



AIMS:

1. To identify data that can be monitored regularly and generate a set of clear messages to advocate for increased priority of alcohol related interventions in the health sector.
2. To scope the establishing of a surveillance system for alcohol consumption.

FUNDING:

Alcohol Advisory Council of New Zealand

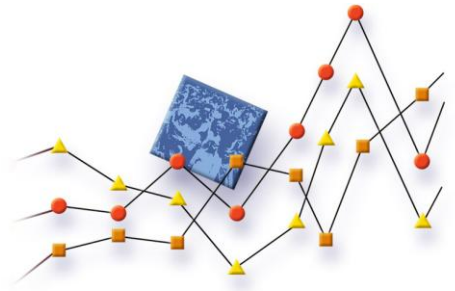
RESEARCHER:

Barry Borman

KEY WORDS:

Alcohol, Indicators, Surveillance

5. Overcoming social barriers to Universal Health Coverage: global experiences both inside and outside the health system



AIMS:

1. Contribute to the G8 2010 meeting to be held in Italy.
2. Provide pragmatic evidence to assist advocacy and policy making to develop effective intervention programmes, policies and approaches for more equitable access to health care in the developing world.
3. Explore the key features of the potential strategies to overcome social barriers that hinder UHC through providing a diverse picture of successful experiences and lessons learned in different countries and for different populations.
4. Identify and analyse global experiences of interventions to overcome social barriers to achieve Universal Health Coverage.
5. Systematically explore intrasectoral interventions - including those that link the health system to local communities.
6. Systematically explore intersectoral interventions - those that link the health system to other sectors.

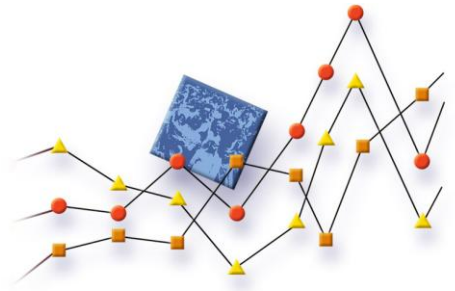
FUNDING: Rockefeller Foundation

RESEARCHERS: Anna Matheson, Don Matheson, Lis Ellison-Loschman

COLLABORATOR: Jackie Cumming (Health Services Research Centre, Victoria University)

KEY WORDS: Universal Health Coverage, Social Barriers, Global Health, Health System, Health Interventions

6. Food security in the Pacific



AIMS:

1. To provide input on successive drafts of the framework for action on food security in the Pacific.
2. To prepare a scoping document for the Pacific Declaration on Food Security.

FUNDING:

World Health Organisation (WHO)

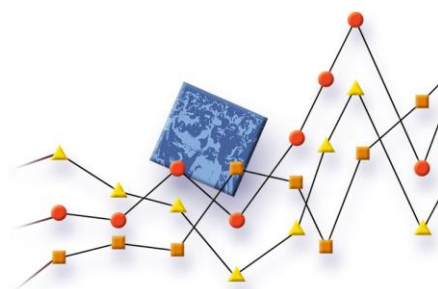
RESEARCHERS:

Don Matheson, Susan Cook

KEY WORDS:

Food Security, Pacific Health, Biosecurity, Nutrition

7. Literature review to inform Māori analysis for Guidelines for Weight Management in Children and Young People and in Adults



AIMS:

1. Strengthen the Māori analysis within the New Zealand Guidelines for Weight Management in Adults and in the New Zealand Guidelines for Weight Management in Children, including guideline algorithms, to better ensure the relevance and effectiveness of the guidelines and guideline algorithm for Māori.
2. To contextualise weight management among Māori in order to inform clinicians' approaches in health consultations. This is informed by the broader determinants of health and inequalities analysis and evidence relating to cultural factors.
3. To describe quality of care issues and enablers and barriers to access and delivery of health services at the health system, health care organisation, health professionals and patient/whānau levels in order to inform approaches to health consultations. With a focus on Māori models of care and frameworks for service delivery.
4. To identify good practice points to enable the application of evidence in health consultations to facilitate weight management among Māori within the context of the guideline algorithm, with a focus on how primary health care and community health service providers can support behaviour change for Māori.
5. To identify any risks that the guidelines may have on the unintended consequence of increasing inequalities.

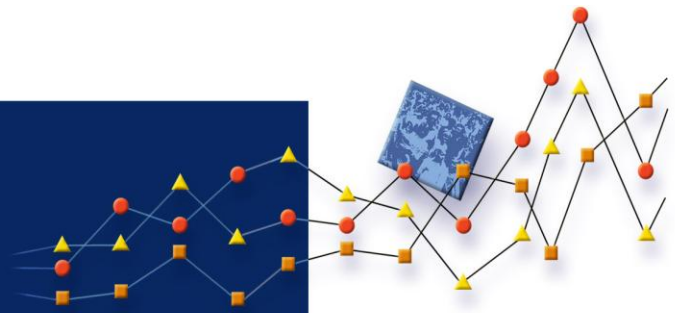
FUNDING: Ministry of Health

RESEARCHER: Cindy Kiro

KEY WORDS: Māori Health, Obesity, Clinical Guidelines

Current Research Projects

Ongoing projects



8. Indicators for surveillance of occupational disease

AIMS:

1. Review of the literature on occupational health surveillance
2. Development of a robust set of indicators feasible and valid for the monitoring of occupational disease in New Zealand
3. Development of a concept-driven occupational disease surveillance system based on existing data sets to describe the trends and prevalence of occupational disease in New Zealand
4. Testing of the surveillance system with one long latency disease (cancer) and two shorter latency diseases (asthma and dermatitis).

FUNDING:

Department of Labour (DoL),
Health Research Council of New Zealand (HRC)

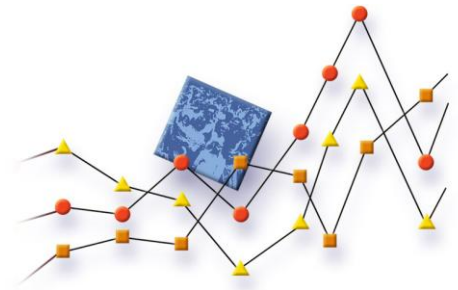
RESEARCHERS:

Barry Borman, Mark Wagstaffe, Neil Pearce,
Jeroen Douwes, David Mclean, Andrea 't
Mannetje, Amanda Eng, Bradley Prezant, Chris
Walls

KEY WORDS:

Occupational Disease, Indicators, Surveillance

9. Development of environmental health indicators including hazardous substance surveillance



AIMS:

1. To provide New Zealand with a comprehensive hazardous substance surveillance system (HSSS) this is concept-driven and based on best practice surveillance principles.
2. To develop a fit for purpose, dynamic and robust system for the evaluation, development, monitoring, and reporting of environmental health indicators in New Zealand.
3. To explore potential synergies between the Environmental Health Indicators produced by this project and the Ministry for the Environment's monitoring the state of the New Zealand's environment project.

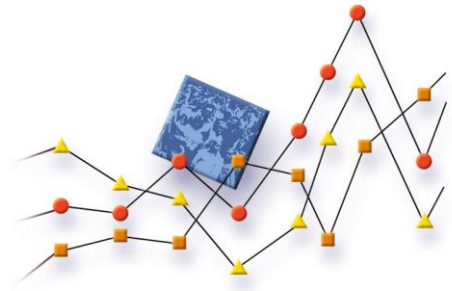
FUNDING: Ministry of Health

RESEARCHERS: Barry Borman, Neil Pearce, Jeroen Douwes, Andrea 't Mannetje, Deborah Read, David McLean

COLLABORATORS: Simon Kingham (University of Canterbury), David Briggs (Imperial College, London), Justine Daw (Ministry for the Environment), Sekove Tinalevu (ERMA), Mark Stevenson (Massey University), Professor Chris Cunningham (Research Centre for Māori Health and Development), Andy Sturman, Femke Reitsma, Greg Breetzke, (University of Canterbury)

KEY WORDS: Environmental Health Indicators, Hazardous Substances, Surveillance

10. Workplace interventions to reduce wood dust exposures in the joinery and furniture making industry



AIMS:

1. To conduct a literature review on workplace interventions intended to reduce airborne dust exposures.
2. To conduct exposure measurements in joinery and furniture factories to *identify* peak inhalable dust exposures during specific work tasks using real time video exposure monitoring.
3. To conduct exposure measurements in joinery and furniture factories to *evaluate* the efficacy of particular interventions on peak inhalable dust exposures.
4. To conduct an occupational hygiene assessment to assess control measures currently in place and their efficacy.
5. To develop, implement and evaluate a full intervention strategy for joinery and furniture factories based on the findings of the sub-studies described above.

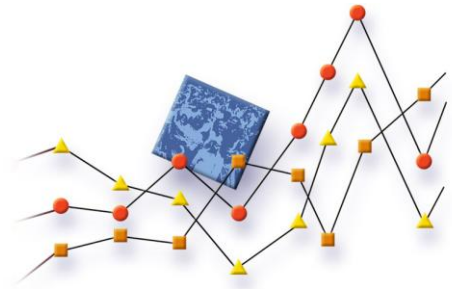
FUNDING: Department of Labour (DoL),
Health Research Council of New Zealand (HRC)

RESEARCHERS: Jeroen Douwes, David McLean, Bradley Prezant,
Kerry Cheung, Andrea 't Mannetje, Neil Pearce

COLLABORATORS: Professor Vivi Schlünssen, Professor Torben Sigsgaard (Aarhus University, Denmark),
Professor Hans Kromhout (Utrecht University, The Netherlands), Professor James McGlothlin (Purdue University, IN, USA), Associate Professor Anthony LaMontagne (University of Melbourne)

KEY WORDS: Wood Dust, Control Measures, Joinery Workers, Furniture Makers, Interventions, Exposure Assessment

11. Asbestos exposure levels in demolition sites



AIMS:

1. To measure asbestos exposure levels in eight demolition sites.
2. To assess the effectiveness, including the appropriateness and quality of use, of Personal Protective Equipment (PPE) used during asbestos demolition and removal activities.

FUNDING:

Department of Labour (DoL)

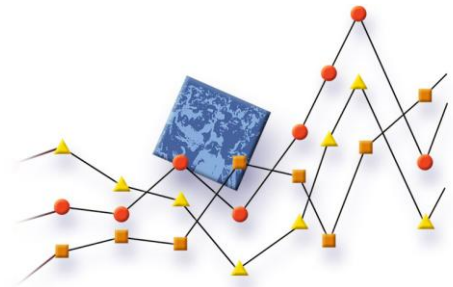
RESEARCHERS:

Bradley Prezant, Jeroen Douwes,
David McLean, Bill Glass, Neil Pearce

KEY WORDS:

Asbestos, Occupational Exposures, Exposure
Assessment

12. Māori households and family wellbeing



AIMS:

1. To describe key changes in Māori household composition over a 25-year period using census data for a range of different household structures and characteristics.
2. To assess changes in the levels of wellbeing of Māori households over the period 1981 to 2006.
3. To assess current state of knowledge through comprehensive literature review of Māori families and households and their whānau ora.
4. To provide an evidence base that is of relevance to policy makers to inform future policies for strengthening Māori families.
5. To provide a foundation for a baseline against which future policies for strengthening Māori families may be assessed.

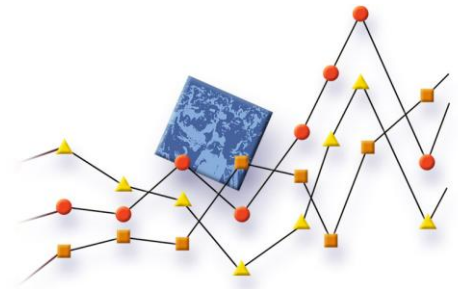
FUNDING: Nga Pae o te Māramatanga, University of Auckland

RESEARCHERS: Cindy Kiro, Andrew Sporle

COLLABORATORS: Dr Martin von Randow (University of Auckland)

KEY WORDS: Māori health, Whānau ora

13. Examining the role of the airway neutrophil in the pathogenesis of asthma



AIMS:

To investigate the role of the neutrophil in the immunopathology of asthma, and in particular, in non-eosinophilic asthma, by:

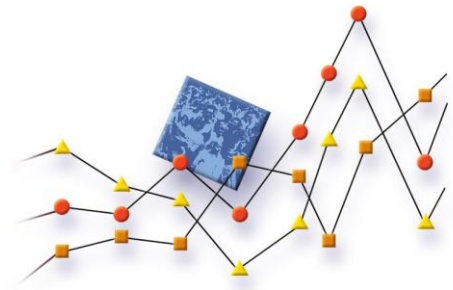
- a. assessing the level of activation in airway inflammatory cells by analysing cell surface activation marker expression and functional activity using flow cytometry before and after cell stimulation;
- b. measuring indicators of cell activity in sputum supernatant samples
- c. comparing neutrophil and eosinophil activation before and after stimulation between asthma inflammatory phenotypes (eosinophilic and non-eosinophilic) and non-asthmatics.

FUNDING: Asthma and Respiratory Foundation of New Zealand

RESEARCHERS: Christine van Dalen, Collin Brooks, Jeroen Douwes

KEY WORDS: Asthma, Neutrophil, Sputum, Flow Cytometry

14. Workplace exposure to carcinogens in New Zealand



AIMS:

1. To conduct a review of the occupational causes of cancer and the known solutions for reducing and/or preventing exposures.
2. To construct a New Zealand-specific Information System on Occupational Exposure to Carcinogens (NZ-CAREX).
3. To construct a New Zealand-specific Agricultural Chemicals Exposure Matrix (NZ-ACEM).
4. To identify key industries and key carcinogens for which intervention would result in marked reductions in occupational cancer.
5. To evaluate practice, knowledge and attitudes of employers, employees and health and safety personnel about workplace carcinogens and intervention strategies, in key New Zealand industries.
6. To engage industry and other relevant stakeholders in this.
7. To build research capacity and partnerships in the field of workplace exposure to carcinogens.

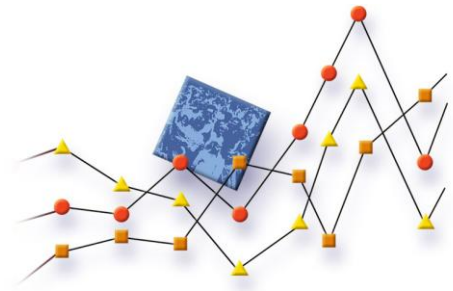
FUNDING: Department of Labour (DoL), Health Research Council of New Zealand (HRC)

RESEARCHERS: Andrea 't Mannetje, Neil Pearce, David McLean, Jeroen Douwes, Evan Dryson, Chris Walls, Lis Ellison-Loschmann, Sunia Foliaki, Tania Slater

COLLABORATORS: Dr Aaron Blair (US National Cancer Institute), Professor Hans Kromhout (IRAS, University of Utrecht), Dr Paolo Boffetta (International Agency for Research on Cancer)

KEY WORDS: Occupational Health, Cancer, Epidemiology, Exposure Assessment

15. Occupational asthma in New Zealand sawmill workers



AIMS:

1. To assess the incidence of occupational asthma in previously unexposed newly or recently recruited sawmill workers.
2. To assess the incidence of decline in lung function in previously unexposed newly or recently recruited sawmill workers.
3. To assess whether dust exposures in the sawmill work environment are associated with these effects.
4. To assess which specific work-related factors increase the probability of a favourable prognosis after the diagnosis of occupational asthma.
5. To assess which preventive programmes are likely to be most effective.

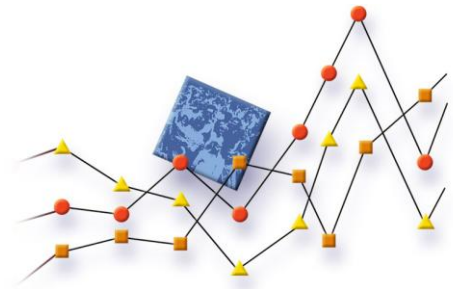
FUNDING: Department of Labour (DoL), Health Research Council of New Zealand (HRC)

RESEARCHERS: David McLean, Jeroen Douwes, Neil Pearce, Chris Walls, Evan Dryson, Ridvan Firestone, Elizabeth Harding, Tania Slater, Kerry Cheung

COLLABORATORS: Professor Chris Cunningham (Research Centre for Māori Health and Development), Professor Paul Demers (University of British Columbia)

KEY WORDS: Occupational Health, Epidemiology, Respiratory Disease, Asthma, Sawmill Workers

16. Occupational dermatitis in New Zealand cleaners



AIMS:

1. To assess the prevalence of work-related dermatitis in New Zealand cleaners and compare it with a non-exposed reference group.
2. To assess what proportion of work-related dermatitis is new onset or incident dermatitis (as opposed to exacerbation of pre-existing dermatitis).
3. To assess the severity of work-related dermatitis based on symptom history and expert opinion.
4. To assess the cleaners' exposure to cleaning agents and the frequency and duration of "wet work".
5. To assess the associations between cleaning exposures and wet work, and work-related dermatitis.
6. To assess which factors increase the probability of a favourable prognosis after the diagnosis of occupational dermatitis.
7. To assess which preventive programmes are likely to be most effective.

FUNDING:

Department of Labour (DoL),
Health Research Council of New Zealand (HRC)

RESEARCHERS:

Jeroen Douwes, David McLean, Neil Pearce,
Ridvan Firestone, Chris Walls, Evan Dryson,
Sunia Foliaki, Elizabeth Harding, Leigh
Emmerton, Heather Duckett, Anne O'Dowd,
Shirely-Belle Brogan, Tania Slater, Kerry
Cheung, Anna Shum-Pearce, Samuel Keer

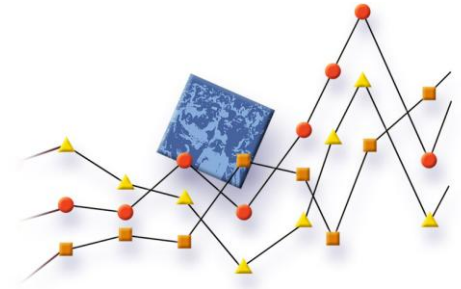
COLLABORATORS:

Dr Lissa Judd (Anwyl Specialist Medical
Centre), Professor Pieter Jan Coenraads
(University of Groningen), Jan-Paul Zock
(CREAL, Barcelona)

KEY WORDS:

Occupational Health, Epidemiology, Skin
Disease, Dermatitis, Cleaners

17. Case-control study of modifiable risk factors for congenital malformations (CM)



AIMS:

1. To investigate the associations between maternal and paternal occupational exposures and congenital malformations (CM) in New Zealand.
2. To evaluate the contribution of non-occupational modifiable risk factors for CM including obesity, diabetes, alcohol consumption and folic acid supplementation.
3. To assess the contributions of (i) acute exposures during the critical period around conception, and (ii) chronic lifetime exposures to the risk of CM.
4. To investigate the risk factors for specific CM subtypes.
5. To estimate the fraction of CM cases that can be potentially prevented.

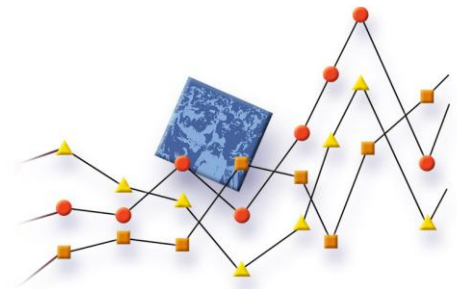
FUNDING: Health Research Council of New Zealand (HRC), Massey University

RESEARCHERS: Andrea 't Mannetje, Amanda Eng, Lis Ellison-Loschmann, Barry Borman, Allan Smith, Shirley-Belle Brogan, Neil Pearce

COLLABORATORS: Dr Joanne Dixon (Wellington Hospital), Professor Innes Asher (Auckland Medical School)

KEY WORDS: Congenital Malformations, Pesticides, Occupational Exposures, Alcohol and Drugs, Epidemiology

18. Occupational exposures and occupational health in Māori



AIMS:

1. To assess current and historical occupational exposures and work practices in a random sample of Māori workers.
2. To assess current morbidity from work-related disease in the same workers and its associations with current and historical occupational exposures.
3. To assess the overall burden of work-related disease in Māori and its relative importance for overall Māori mortality and morbidity.
4. To establish a prospective cohort of Māori workers in order to monitor future morbidity and mortality patterns in occupational health and workplace exposure.

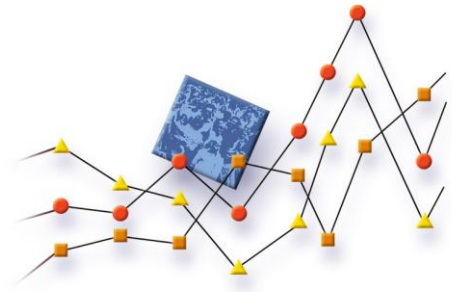
FUNDING: Health Research Council of New Zealand (HRC)

RESEARCHERS: Lis Ellison-Loschmann, Katharine Haddock, Tania Slater, Michelle Gray, Andrea 't Mannetje, Neil Pearce

COLLABORATORS: Professor Chris Cunningham (Research Centre for Maori Health and Development), Professor Hans Kromhout (University of Utrecht)

KEY WORDS: Occupational Exposures, Māori Health, Epidemiology

19. Exposure to airborne hazardous substances in the wood conversion sector



AIMS:

1. To conduct a comprehensive review of the literature that will provide an overview of the key airborne exposures associated with elevated risks of cancer, respiratory morbidity and mortality, and other work-related illnesses in the New Zealand wood conversion sector.
2. To compare exposure levels reported in the literature with national and international limits.
3. To assess the prevalence of these exposures in the New Zealand wood conversion sector.
4. To assess which strategies have been most effective in reducing exposure in other countries.
5. To conduct an exposure survey in the New Zealand joinery and furniture industry involving measurements of airborne substances including wood dust and formaldehyde.
6. To estimate the risks to health of such exposures in New Zealand joinery and furniture workers.

FUNDING:

Accident Compensation Corporation (ACC)

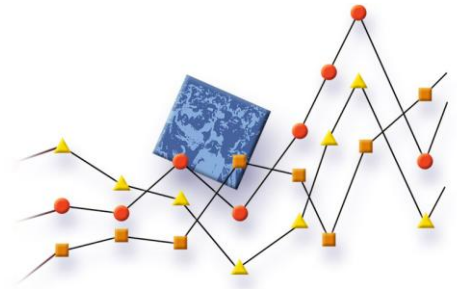
RESEARCHERS:

Jeroen Douwes, Kerry Cheung, David McLean, Andrea 't Mannetje, Neil Pearce

KEY WORDS:

Occupational Health, Respiratory Disease, Cancer, Wood Industry, Epidemiology

20. Stomach cancer in Māori



AIMS:

1. To investigate the importance of known risk factors for stomach cancer in Maori including socioeconomic factors, *helicobacter pylori*, obesity, diet, smoking, and alcohol consumption.
2. To investigate the role of genetic factors and gene-environment interactions (particularly alcohol consumption and specific genetic polymorphisms) on the risk of stomach cancer in Māori.
3. To explore potential risk factors for subtypes of stomach cancer in Māori, including diffuse gastric cancer.
4. To record the care and treatment received by patients and examine factors that affect stomach cancer survival in Māori.

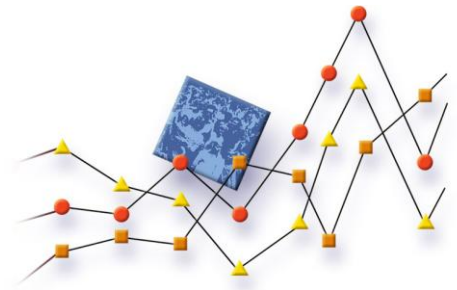
FUNDING: Health Research Council of New Zealand (HRC)

RESEARCHERS: Lis Ellison-Loschmann, Michelle Gray, Tracey Whaanga, Andrew Sporle, Neil Pearce

COLLABORATORS: Associate Professor Jonathan Koea (University of Auckland), Pauline Harawira (Kimihauora Trust), Associate Professor Parry Guildford (Dunedin School of Medicine)

KEY WORDS: Gastric Cancer, Epidemiology, Risk Factors, Genetic Factors

21. Understanding the determinants of inequalities in breast cancer survival



AIMS:

1. To explore possible differences between ethnic, socioeconomic and urban/rural groups of women with breast cancer in their access to primary care.
2. To explore potential barriers/facilitators to diagnosis and optimum treatment.

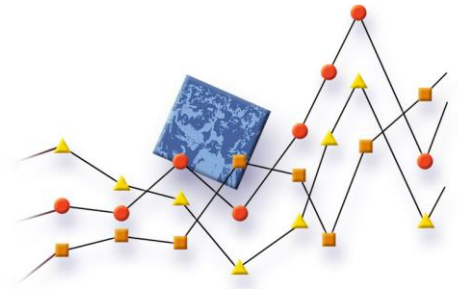
FUNDING: Health Research Council of New Zealand (HRC)

RESEARCHERS: Lis Ellison-Loschmann, Fiona McKenzie, Ridvan Firestone, Christine van Dalen, Neil Pearce

COLLABORATORS: Andrew Sporle, Dr Michelle Trumpelmann (Apollo Centre), Trish Clark (Southland District Health Board), Dr Belinda Scott (Breast Associates, Auckland), Dr Ben Gray (Wellington School of Medicine)

KEY WORDS: Breast Cancer, Cancer Control, Cancer Survival, Health Inequalities, Ethnicity, Socio-economic Factors, Rurality

22. Inequalities in cervical cancer survival in New Zealand



AIMS:

1. We have previously observed differences in cervical cancer survival in New Zealand according to ethnicity; are there similar differences by socioeconomic status or urban/rural status?
2. If ethnic, socioeconomic and/or urban/rural differences are present, are these explained by differences in stage at presentation?
3. What other factors (e.g. comorbidities, screening history, distance from clinic) may explain the observed demographic differences in survival?

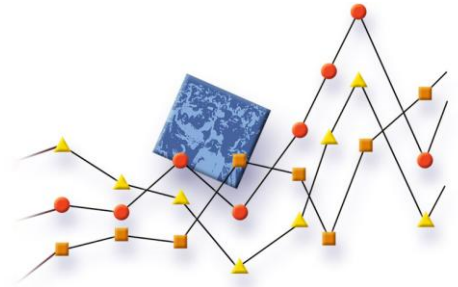
FUNDING: Health Research Council, Lotteries Health Research

RESEARCHERS: Naomi Brewer, Lis Ellison-Loschmann, Sunia Foliaki, Diana Best, Christine van Dalen, Barry Borman, Andrew Sporle, Neil Pearce

COLLABORATORS: Associate Professor Steven Fleming (University of Kentucky), Dr Jeanie McDonald (Apollo Centre), Teresea Olsen (Kokiri Marae), Dr Diana Sarfati (Wellington School of Medicine), Dr Lois Eva (National Women's Hospital)

KEY WORDS: Cervical Cancer, Epidemiology, Survival

23. Survey of cervical abnormalities in Fiji



AIMS:

1. To investigate the age-specific prevalence of cervical abnormalities and HPV infection in women living in Suva, Fiji.
2. To assess risk factors for cervical cancer in Suva, Fiji.
3. To generate data to inform cervical cancer prevention programmes in Fiji.

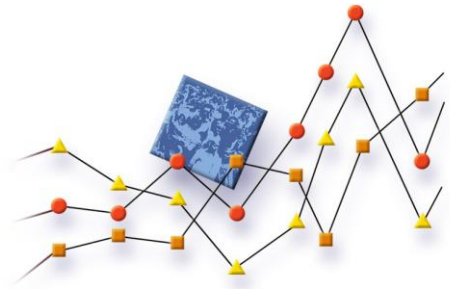
FUNDING: International Agency for Research on Cancer (IARC)

RESEARCHERS: Sunia Foliaki, Naomi Brewer, Neil Pearce

COLLABORATORS: Dr Lepani Waqatakirewa, Dr. James Fong, Dr. Eka Buadromo (Ministry of Health, Fiji), Mrs. Mere Turagabeci (Oxfam Clinic, Fiji), Dr Silvia Franceschi, Dr Gary Clifford (International Agency for Research on Cancer), Dr Peter Snijders, Professor Chris Meijer (Vrije Universiteit, Amsterdam)

KEY WORDS: Cervical Cancer, Epidemiology, Risk Factors, Human Papilloma Virus (HPV)

24. Providing Epidemiological Services to the Māori Health Directorate



AIMS:

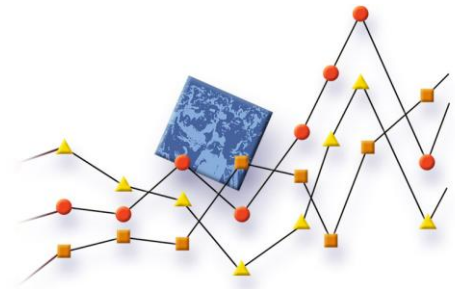
To provide the Māori Health Directorate, Ministry of Health with a variety of epidemiological services and analysis to support their policy and strategy development and implementation.

FUNDING: Ministry of Health

RESEARCHERS: Barry Borman, Lis Ellison-Loschmann, Neil Pearce

KEY WORDS: Māori Health, Epidemiology, Surveillance

25. The role of the innate immune system in childhood asthma development



AIMS:

1. To analyse gene expression of Toll-like receptors TLR2 and TLR4, and of CD14 in blood samples collected from 250 farmers infants and 250 control infants.
2. To analyse cell surface expression of TLR2, TLR4 and CD14 in blood samples from the same population using flow cytometry.
3. To assess whether expression of these receptors is associated with farm and/or endotoxin exposure.
4. To assess which particular cell populations in blood show modulation of TLR2, TLR4 and CD14 due to farm/endotoxin exposure.
5. To assess whether expression of these receptors is associated with TH2 activity, allergies and symptoms of asthma.

FUNDING:

Asthma and Respiratory Foundation of New Zealand (ARFNZ), Health Research Council of New Zealand (HRC)

RESEARCHERS:

Collin Brooks, Christine van Dalen, Neil Pearce, Jeroen Douwes

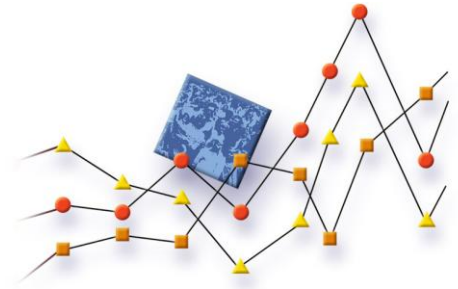
COLLABORATORS:

Dr Ian Hermans, Professor Graham Le Gros (Malaghan Institute of Medical Research)

KEY WORDS:

Childhood Asthma, Allergy, Innate Immunity, Birth Cohort

26. Occupational risk factors for Non-Hodgkin's Lymphoma (NHL) and NHL subtypes



AIMS:

1. To conduct a pooled analysis of 9 NHL case-control studies from North America, Europe, and Australia, to study the association between occupational risk factors and NHL, in different populations.
2. To investigate occupational risk factors previously found to be associated with NHL, using uniformly defined indicators for occupational exposure.
3. To evaluate risk by NHL subtype, using a standard NHL classification based upon histologically confirmed diagnoses.

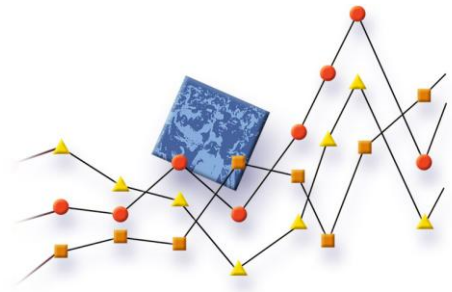
FUNDING: US National Institutes of Health (NIH)

RESEARCHER: Andrea 't Mannetje

COLLABORATORS: Dr Paolo Boffetta (International Agency for Research on Cancer, France), Professor Pierluigi Cocco (University of Cagliari, Italy), Professor Anneclaire De Roos (Fred Hutchinson Cancer Research Center, US), Dr Silvia De Sanjose (Catalan Institute of Oncology, Spain), Dr Geza Benke (University of Melbourne, Australia), Dr Aaron Blair (National Cancer Institute, US), Dr Paul Brennan (International Agency for Research on Cancer, France), Professor Brian Chiu (Northwestern University, US), Dr Patricia Hartge (National Cancer Institute, US), Professor Elizabeth Holly (University of California), Professor Eve Roman (University of York, UK), Dr Adele Seniori Costantini (Centre for Oncologic Prevention, Italy), Dr John Spinelli (BC Cancer Research Center, Canada), Professor Tongzhang Zheng (Yale University, US)

KEY WORDS: Non-Hodgkin's Lymphoma, Pooled Analysis, Occupational Risk Factors

27. Asthma causation, mechanisms and prevention



AIMS:

1. To assess whether atopic sensitisation can be reversed over time in a working adult population newly exposed to moderate to high levels of endotoxin.
2. To assess whether there is a dose-response between endotoxin exposure and change in atopic status.
3. To assess the time period in which the reduction in atopy takes place.
4. To assess the association between endotoxin exposure and lung function and respiratory symptoms.
5. To assess whether a change in atopic status is associated with a change in lung function and respiratory symptoms.
6. To assess the level of exposure at which the protective effect on atopy is most effective and the adverse effects on the airways (induced by non-atopic mechanisms) are minimal.

FUNDING:

Health Research Council of New Zealand (HRC)

RESEARCHERS:

Jeroen Douwes, David McLean, Neil Pearce, Elizabeth Harding, Shirley-Belle Brogan, Heather Duckett, Lis Ellison-Loschmann, Amanda Eng, Haidee MacKenzie, Collin Brooks

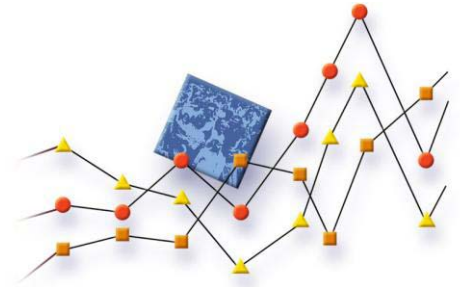
COLLABORATORS:

Professor Graham Le Gros, Dr Jacquie Harper (Malaghan Institute of Medical Research)

KEY WORDS:

Asthma, Respiratory Disease, Occupational Health

28. ISAAC (International Study of Asthma and Allergies in Children), Phase III



AIMS:

1. To describe the prevalence and severity of asthma, rhinitis and eczema in children living in different centres and to make comparisons within and between countries.
2. To conduct ecologic analyses of the association of asthma prevalence with factors such as diet, infections, immunisation, air pollution and allergen levels.
3. To examine trends in asthma prevalence over time.
4. To provide a framework for further aetiological research into genetic, lifestyle, environmental and medical care factors affecting these diseases.

The International Study of Asthma and Allergies in Childhood (ISAAC) was developed and organised together with colleagues in Auckland, London and Münster. This study now includes more than 1,000,000 children in more than 280 centres in 100 countries. Our involvement includes:

- Sunia Foliaki is Regional Coordinator for Oceania and a member of the ISAAC Steering Committee.
- We are participating in the New Zealand ISAAC Phase III survey, and have conducted the survey in Wellington.
- Neil Pearce is a member of the ISAAC Executive and ISAAC Steering Committee, and is the ISAAC Publications Coordinator.

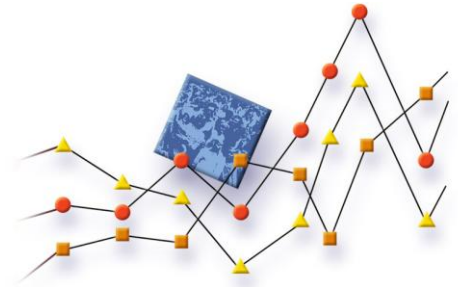
FUNDING: Health Research Council of New Zealand (HRC), Wellcome Trust

RESEARCHERS: Neil Pearce, Lis Ellison-Loschmann, Sunia Foliaki, Soo Cheng

COLLABORATORS: Professor Innes Asher (Auckland Medical School), Professor Bengt Björkstén (Karolinska Institute, Stockholm), Professor David Strachan (St George's Hospital Medical School, London), Professor Luis Garcia Marcos (University of Madrid, Spain) and many other colleagues in more than 280 centres in 100 countries

KEY WORDS: ISAAC, Asthma, Respiratory Disease, Child Health

29. Chronic inflammation in asthma



AIMS:

1. To assess whether chronic inflammation in asthma is due to impairment in the ability of pulmonary macrophages to phagocytose apoptotic neutrophils and eosinophils.
2. To assess whether differences in the cell profile of asthma inflammatory phenotypes are due to differences in pulmonary macrophage phagocytic ability.

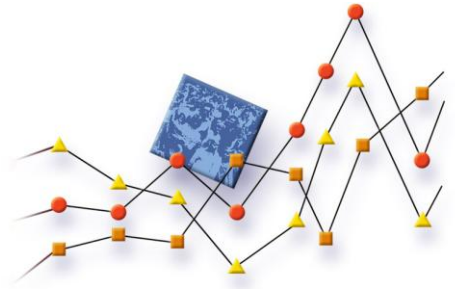
FUNDING: Marsden Fund

RESEARCHERS: Dr Christine van Dalen, Elizabeth Harding,

COLLABORATORS: Dr Mark Hampton (Free Radical Research Group, Christchurch School of Medicine, Christchurch)

KEY WORDS: Asthma, Inflammation, Macrophage, Eosinophil, Neutrophil

30. Early life factors and breast cancer risk



AIMS:

1. To assess adolescent exposures which may be pertinent to breast cancer risk.
2. To investigate the relationship between the potential risk factors and breast cancer risk in the New Zealand population.
3. To investigate whether these relationships differ between ethnic groups.
4. To follow the cases to assess which factors affect cancer survival.

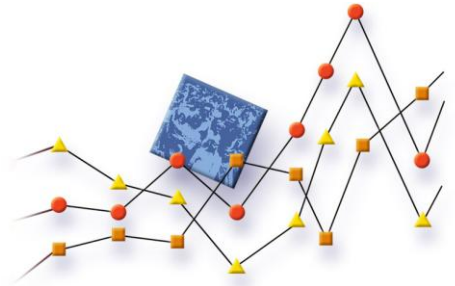
FUNDING: Health Research Council of New Zealand (HRC), Cancer Society of New Zealand

RESEARCHERS: Lis Ellison-Loschmann, Fiona McKenzie, Ridvan Firestone, Michelle Gray, Sunia Foliaki, Neil Pearce

COLLABORATORS: Dr Mona Jeffreys (University of Bristol), Dr Peter Dady (Cancer Society of New Zealand), Professor George Davey Smith (University of Bristol, United Kingdom)

KEY WORDS: Breast Cancer, Early Life Factors, Life-course Epidemiology

31. Cancer in Pacific populations



AIMS:

1. To conduct descriptive analyses of cancer incidence and mortality in four Pacific countries (Tonga, Samoa, Fiji and Niue) and in Pacific people in New Zealand.
2. To conduct a case-control study of breast cancer in women which will be conducted in the same four Pacific countries in parallel with a similar study of Pacific women in New Zealand.

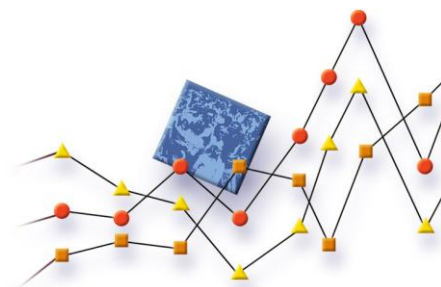
FUNDING: Health Research Council of New Zealand (HRC)

RESEARCHERS: Sunia Foliaki, Lis Ellison-Loschmann, Diana Best, Neil Pearce

COLLABORATORS: Dr Lepani Waqatakirewa (Ministry of Health, Fiji), Dr Siale 'Akau'ola (Ministry of Health, Tonga), Dr Semisi Aiono (Ministry of Health, Samoa), Dr Hale Paka (Department of Health, Niue), Dr Paolo Boffetta (International Agency for Research on Cancer, Lyon, France), Dr Marc Goodman (University of Hawaii), Dr Mona Jeffreys, Professor George Davey Smith (University of Bristol, United Kingdom)

KEY WORDS: Cancer, Breast Cancer, Pacific

32. Asthma and atopy in farmers' children and their parents



AIMS:

1. To measure the prevalence of respiratory symptoms (with the focus on asthma) in farmers' children and their parents, and in a comparison group from a non-farming population (Phase I).
2. To compare the prevalence of respiratory symptoms in children and parents in various types of farming (dairy, sheep & beef, and crop farming) (Phase I).
3. To measure the prevalence of atopy in a sample of children and their parents (farming and non-farming) in order to ascertain whether any protective effect of farming involves atopic mechanisms (Phase II).
4. To measure relevant environmental exposures in a sample of households (farming and non-farming) including house dust allergen and endotoxin, and to examine their association with the occurrence of atopy and asthma, while adjusting for other risk factors for asthma (Phase II).
5. To study through the conduct of an infant cohort study the immune status of babies born on farms, and control babies (Phase III).

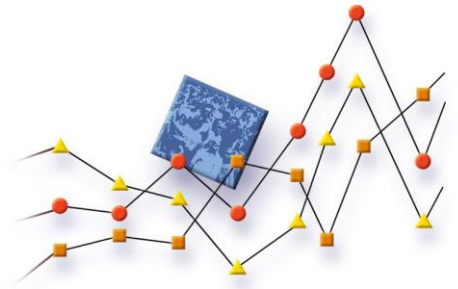
FUNDING: Health Research Council of New Zealand (HRC)

RESEARCHERS: Jeroen Douwes, Neil Pearce, Soo Cheng, Collin Brooks, Elizabeth Harding, Heather Duckett, Shirley-Belle Brogan, Leigh Emmerton, Anne O'Dowd, Michelle Gray, Haidee MacKenzie

COLLABORATORS: Dr Joanna McKenzie (Massey University Veterinary Epicentre), Professor Graham Le Gros (Malaghan Institute of Medical Research), Professor Erika Von Mutius (University Children's Hospital, Munich, Germany), Professor Chris Cunningham (Research Centre for Māori Health & Development)

KEY WORDS: Asthma, Respiratory Disease, Child Health, Occupation

33. Dioxin exposure levels and health effects in former phenoxy herbicide production workers



AIMS:

1. To examine the long term effects on mortality and cancer incidence in production workers and pesticide sprayers exposed to phenoxy herbicides, chlorophenols and dioxin contaminants.
2. To measure the dioxin levels and related biomarkers of dioxin toxic effects in the blood of former phenoxy herbicide production workers.
3. To determine whether dioxin levels are associated with higher cancer mortality and incidence in this population.
4. To determine whether dioxin levels are associated with chronic health problems and adverse reproductive outcomes in this population.
5. To determine whether dioxin levels are associated with biomarkers of dioxin toxic effects including effects on AhR-regulated biological functions.

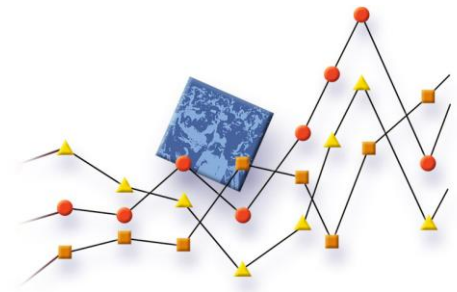
FUNDING: Health Research Council of New Zealand (HRC)

RESEARCHERS: Andrea 't Mannetje, David McLean, Tania Slater, Amanda Eng, Shirley-Belle Brogan, Collin Brooks, Elizabeth Harding, Evan Dryson, Chris Walls, Barry Borman, Neil Pearce

COLLABORATORS: Professor Manolis Kogevinas (Centre de Recerca en Epidemiologia Ambiental (CREAL), Barcelona), Professor Pier Bertazzi (University of Milan), Dr Rod Lea (Environmental Sciences and Research), Dr Patrick O'Connor (MidCentral Health).

KEY WORDS: Cancer, Occupation, Pesticides, Dioxin

34. Investigation of breast milk for persistent organic pollutants



AIMS:

1. To obtain data on current levels of persistent organic pollutants (POPs) in human breast milk in New Zealand.
2. To compare these levels with previous levels and detect trends in POPs exposure.
3. To measure for the first time polybrominated diphenylethers (PBDE) in breast milk in New Zealand.
4. To use the collected New Zealand breast milk samples for inclusion in the fourth round of the WHO-coordinated study of human milk for POPs, thus providing an international comparison for levels of POPs.
5. To study the determinants of elevated levels of POPs in breast milk in New Zealand.
6. To provide recommendations for prioritising POPs for remedial action in New Zealand.

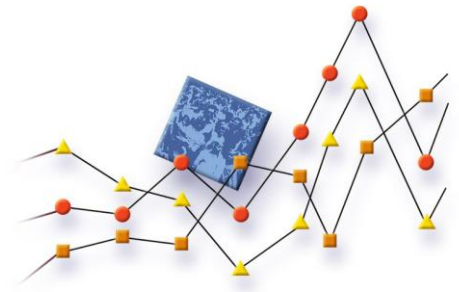
FUNDING: Ministry of Health

RESEARCHERS: Andrea 't Mannetje, Jeroen Douwes, Shirley-Belle Brogan, Heather Duckett, Leigh Emmerton, Lis Ellison-Loschmann, Allan Smith Neil Pearce

COLLABORATOR: Dr Stuart Harrad (University of Birmingham)

KEY WORDS: Breast Milk, POPs (Persistent Organic Pollutants), Dioxins, Polychlorinated Biphenyls (PCBs), Organochlorine Pesticides, Polybrominated Diphenylethers (PBDE)

35. Dioxin exposure levels in New Plymouth firefighters



AIMS:

1. To measure the individual serum dioxin levels of 40 firefighters previously stationed at New Plymouth.
2. To assess their health status through clinical examination.
3. To compare their dioxin levels with the dioxin levels of 20 firefighters never stationed in New Plymouth.
4. To determine whether dioxin levels are associated with chronic health problems and adverse reproductive outcomes of this population.

FUNDING:

The New Zealand Fire Service

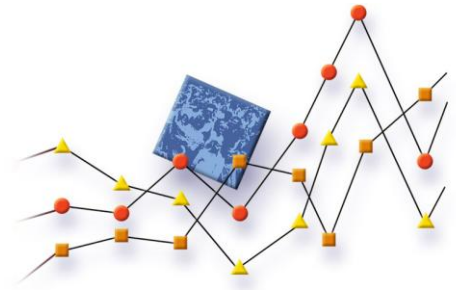
RESEARCHERS:

Andrea 't Mannetje, Amanda Eng,
Elizabeth Harding, Shirley-Belle Brogan,
Tania Slater, Collin Brooks, Neil Pearce

KEY WORDS:

Dioxin, Firefighters, Serum Levels, Phenoxy
Herbicides

36. The Early Life Factors Study of Childhood Diseases (www.elfs.org.nz)



AIMS:

1. To establish a large dynamic cohort of infants who will be followed until adulthood.
2. To assess associations between a wide range of early life exposures/events/life style factors and a broad range of health outcomes in early childhood including those listed below.
3. To assess the associations between maternal diet and congenital malformations, infant deaths, low birth weight, growth patterns up to age 18 months, hospital admissions in infancy, childhood obesity, and allergies and asthma symptoms.
4. To assess the associations between parental occupational exposures and congenital malformations, infant deaths, and low birth weight.
5. To assess the associations between domestic exposures to common cleaning agents during pregnancy and in the first few months after birth, and asthma symptoms in infants.
6. To assess the associations between indoor dampness and fungal exposure, and allergies and asthma symptoms in infants.
7. To assess the associations between ethnicity and/or low socioeconomic status and low birth weight, an increased risk of hospital admissions in infants, growth patterns up to 18 months, and obesity after two years of age.
8. To assess the associations between infant diet and allergy and asthma symptoms, and obesity after two years of age.
9. To provide a sampling frame for more detailed clinical studies on specific diseases by selecting subjects from the larger data base.

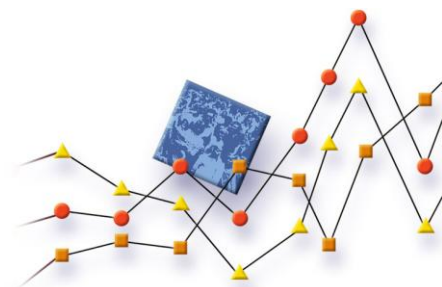
FUNDING: Health Research Council of New Zealand (HRC)

RESEARCHERS: Ridvan Firestone, Andrea 't Mannetje, Lis Ellison-Loschmann, Barry Borman, Soo Cheng, Xian Chen (Jo), Neil Pearce, Jeroen Douwes

COLLABORATORS: Dr Lorenzo Richiardi, Professor Franco Merletti (Epidemiology Unit, Department of Biomedical Sciences, Turin, Italy), Dr Mona Jeffreys (University of Bristol)

KEY WORDS: Birth Cohort, Congenital Malformations, Infant Deaths, Obesity, Respiratory Disease, Life style Factors, Socioeconomic Status, Environmental Exposures

37. Occupational exposure to EMFs and risk of glioma and meningioma



AIMS:

1. To evaluate the possible association between the occupational exposure to electromagnetic fields (EMFs) and tumours of the brain and central nervous system (specifically, glioma and meningioma).
2. To evaluate the possible association between selected occupational chemical exposures and tumours of the brain and central nervous system (specifically, glioma and meningioma).
3. To investigate the possibility of synergism and/or confounding between chemical and EMF exposures on the risk of brain cancers.

FUNDING:

US National Institutes of Health (NIH)

RESEARCHER:

David McLean

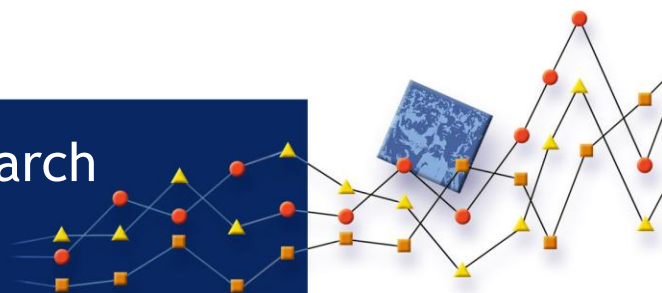
COLLABORATORS:

Dr Elisabeth Cardis (CREAL), Dr Geza Benke (Monash University), Dr Joe Bowman, Dr Dave Conover (NIOSH), Professor Maria Feychting, Professor Nils Plato (Karolinska Institute), Professor Martine Hours (Université Claude Bernard), Professor Daniel Krewski (George Washington University), Dr Susanna Lagorio (Istituto Superiore di Sanita), Professor Patricia McKinney (University of Leeds), Dr Marie-Elise Parent (INRS-Institut Armand Frappier), Dr Siegal Sadetzki (Tel Hashomer), Dr Birgitte Schlehofer (DKFZ German Cancer Research Center), Professor Jack Siemiatycki (Université de Montréal), Dr Martie Van Tongeren (Institute of Occupational Medicine, Edinburgh), Dr Timo Kauppinen (Finnish Institute of Occupational Health), Professor Franco Merletti (University of Turin).

KEY WORDS:

Cancer, Electromagnetic Fields

Projects Based in Other Research Groups and Institutions



1. Health effects of mobile (cellular) phones

AIMS:

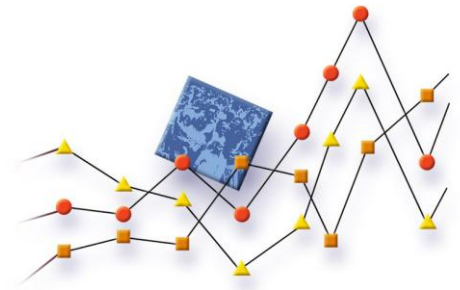
1. To investigate whether mobile phone use causes brain cancer.
2. To investigate occupational causes of brain cancer.

COLLABORATORS: Professor Alistair Woodward (University of Auckland), Dr Angus Cook, Professor Tony Blakely (Wellington School of Medicine), Dr Elizabeth Cardis (International Agency for Research on Cancer)

CPHR RESEARCHER: Neil Pearce

KEY WORDS: Cancer, Environmental Health

2. Estimating the long-term health outcomes of people with epilepsy



AIMS:

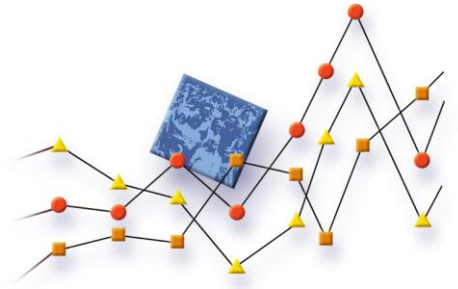
1. To establish an epilepsy register in Tasmania.
2. To undertake a cross-sectional study of this community sample of people with epilepsy to investigate the prevalence of epilepsy syndromes, and their severity, epilepsy-related injuries and health service utilisation.
3. To establish a community cohort of people with epilepsy which can be followed prospectively to monitor health outcomes, measure risk factors contributing to these outcomes if indicated (with second stage case-control studies), and perform intervention trials if considered appropriate.

COLLABORATORS: Dr Wendyl D'Souza, Dr Mark Cook, Dr Terry O'Brien (St Vincent's Hospital, Melbourne), Dr Bruce Taylor (Hobart Hospital, Tasmania), Professor Terry Dwyer (Menzies Centre, Hobart, Tasmania)

CPHR RESEARCHER: Neil Pearce

KEY WORD: Epilepsy

3. Centre for Māori Health Research and Development (HRC Programme Grant)



AIM:

Programme of research in Māori health, including studies of child health, mental health and the health of older Māori (Research Centre for Māori Health & Development HRC Programme Grant).

COLLABORATORS:

Professor Mason Durie, Professor Chris Cunningham, Dr Maureen Holdaway, Dr Stephanie Palmer, Dr Te Kani Kingi, John Waldon, Dr Amohia Boulton, Sharon Taite (Research Centre for Māori Health & Development)

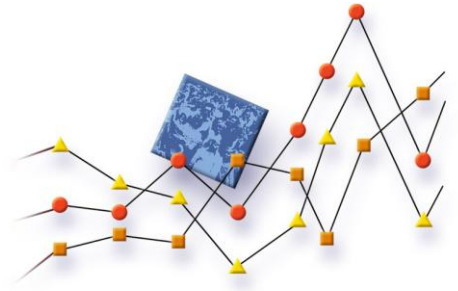
CPHR RESEARCHER:

Neil Pearce

KEY WORD:

Māori Health

4. IARC multicentre case-control study of occupation, environment and lung cancer in Central and Eastern Europe



AIMS:

1. Investigate the role of occupational risk factors in the aetiology of lung cancer in Central and Eastern Europe.
2. Investigate other factors including tobacco consumption, air pollution and genetic susceptibility.
3. Conduct this analysis after combining the datasets of individual centres.

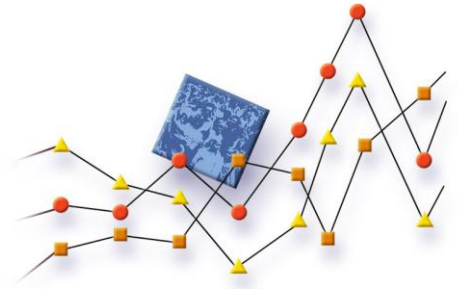
COLLABORATORS:

Dr Paolo Boffetta (International Agency for Research on Cancer, Lyon, France), Dr Tony Fletcher (London School of Hygiene and Tropical Medicine, London, UK), Dr Joelle Fevotte (Institut Universitaire de Médecine du Travail, UCB, France), Dr Dana Mates (Institute of Hygiene, Public Health, Health Services and Management, Bucharest, Romania), Dr Peter Rudnai (National Institute of Environmental Health, Budapest, Hungary), Dr David Zaridze (Institute of Carcinogenesis, Cancer Research Centre, Moscow, Russia), Dr Eleonóra Fabiánová (Specialized State Health Institute, Banská Bystrica, Slovakia), Dr Witold Zatonski (Maria Skłodowska Institute of Oncology, Warsaw, Poland), Dr Neonila Szeszenia-Dabrowska (Department of Epidemiology, Lodz, Poland), Dr Vladimir Janout (Department of Preventive Medicine, Palacky University of Medicine, Olomouc, Czech Republic), Dr Vladimir Bencko (Charles University of Prague, First Faculty of Medicine, Praha, Czech Republic), Dr Lenka Foretova (Department of Cancer Epidemiology, Masaryk Cancer Institute, Brno, Czech Republic), Dr Judith Youngson (Roy Castle International Centre for Lung Cancer Research, Liverpool, UK)

CPHR RESEARCHER: Andrea 't Mannetje

KEY WORDS: Lung Cancer, Occupation, Tobacco

5. International study of environment, viruses and cancer of the oral cavity and the larynx



AIMS:

1. To assess the role of known (i.e., occupation, smoking, alcohol drinking, fruit and vegetable intake) or putative (i.e., human papilloma virus (HPV) infection) risk factors for cancer of the oral cavity and the larynx in the study populations.
2. To investigate the presence and pattern of P53 mutations and to assess whether they differ according to exposure to risk factors.
3. To assess the role of genetic susceptibility mediated through genetic polymorphisms of enzymes potentially implicated in the metabolism of carcinogens.

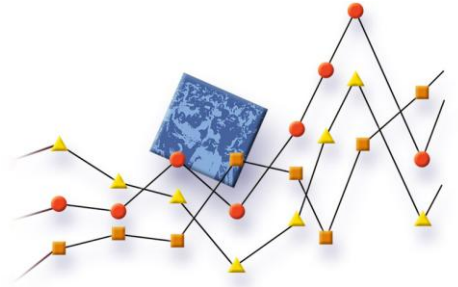
COLLABORATORS:

Dr Paul Brennan, Dr Paolo Boffetta (International Agency for Research on Cancer, Lyon, France), Dr Maria Paula Curado (Registro de Câncer de Goiânia, Associação de Combate ao Câncer em Goiás, Brazil), Dr Alexander Daudt (Cancer Prevention and Control Section, Hospital de Clínicas de Porto Alegre, Brazil), Dr Sergio Koifman (Escola Nacional de Saúde Pública, Fundação Oswaldo Cruz, Brazil), Dr Ana Menezes (Departamento de Clínica Médica, Faculdade de Medicina, Universidade Federal de Pelotas, Brazil), Dr Victor Wünsch-Filho (Departamento de Epidemiologia, Faculdade de Saúde Pública, Universidade de São Paulo, Brazil), Dr Elena Matos (Depto. de Carcinogenesis Química y Ambiental, Instituto de Oncología Angel H. Roffo, Universidad de Buenos Aires, Argentina), Dr Leticia Fernandez (Institute of Oncology and Radiobiology, Havana, Cuba), Dr Jan Walboomers, Dr Peter Snijders (Department of Pathology, Free University Hospital, Amsterdam, The Netherlands), Dr Joelle Fevotte (Institut Universitaire de Médecine du Travail, UCB, Lyon, France)

CPHR RESEARCHER: Andrea 't Mannetje

KEY WORDS: Oral Cancer, Laryngeal Cancer, Lifestyle Factors, Occupation

6. Environmental exposures and lymphoid neoplasms



AIMS:

1. To identify the contribution of Epstein-Barr virus, Human Immunodeficiency virus, Hepatitis C virus and Herpes virus 8 to the occurrence of lymphoid neoplasms.
2. To explore the potential associations of other infectious agents (Chlamydia, other related herpes virus, papovavirae virus) to the occurrence of lymphoid neoplasms.
3. To identify the contribution of specific occupational exposures (inorganic pesticides, organic pesticides, animal viruses, organic dust, organic solvents and radiation) to the occurrence of lymphoid neoplasms.
4. To explore the possible interactions between occupational/environmental factors and infectious agents.
5. To explore the possible contribution of exposure to ultraviolet radiation to the occurrence of lymphoid neoplasms.

COLLABORATORS:

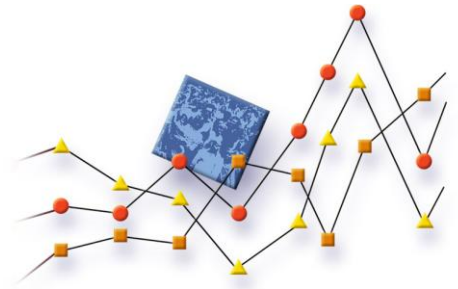
Dr Paul Brennan, Dr Paolo Boffetta (International Agency for Research on Cancer, Lyon, France), Dr Silvia de Sanjosé (Oncology Institute, Barcelona, Spain), Dr Marc Maynadie (Hôpital du Bocage, Dijon, France), Dr Nikolaus Becker (German Cancer Research Centre, Heidelberg, Germany), Dr Anthony Staines (Department of Public Health, University College, Dublin, Ireland), Dr Jose Iscovich (International Fertility Institute, Raanana, Israel), Dr Lenka Foretova (Department of Cancer Epidemiology, Masaryk Cancer Institute, Brno, Czech Republic), Dr Martine Vornanen (Department of Clinical Pathology, Kuopio University Hospital, Kuopio, Finland), Dr Pier Luigi Cocco (Institute of Occupational Health, Cagliari, Italy)

CPHR RESEARCHERS: Andrea 't Mannetje, Lis Ellison-Loschmann

KEY WORDS:

Lymphoid Neoplasms, Environmental Exposures, Infectious Agents, Occupational Exposures

7. Arsenic and childhood respiratory health in Bangladesh



AIMS:

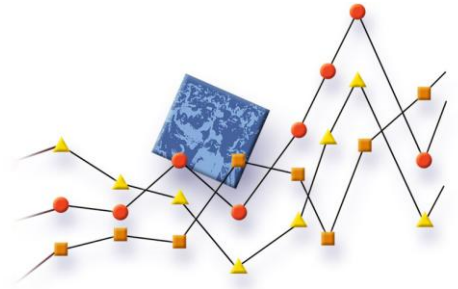
1. To investigate the impact of exposure to arsenic in drinking water on lung function and respiratory symptoms and diseases in children.
2. To assess possible synergy between ingested arsenic and inhaled indoor air pollutants from biomass burning and second-hand smoke on lung function and respiratory outcomes in children.
3. To investigate nutritional susceptibility to arsenic-related respiratory effects in children.
4. To assess whether or not methylation of arsenic to MMA3 and MMA5 as measured in urine affects the risks of arsenic-related respiratory system effects in children and to store remaining urine samples for other testing including proteomics.
5. To identify whether children with reduced height-for-age, weight-for-height, or weight-for-age are at increased risk of developing arsenic-related respiratory symptoms and impaired lung function, while considering modifying factors, particularly nutrition.
6. To start a cohort for long-term follow-up into late adolescence and young adulthood to investigate the relation of childhood arsenic exposure and lung function and respiratory effects later in life.

COLLABORATORS: Professor Allan Smith, Dr Ondine von Ehrenstein (University of California, Berkeley, USA)

CPHR RESEARCHERS: Neil Pearce, Jeroen Douwes

KEY WORDS: Arsenic, Asthma, Respiratory Disease, Child Health

8. Risk factors for asthma prevalence in Italian children



AIMS:

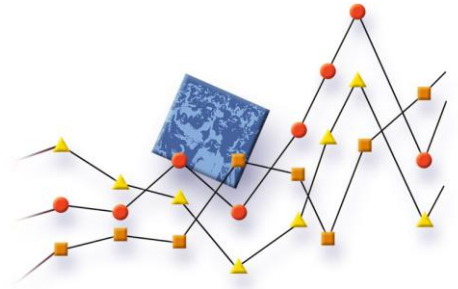
1. To examine the associations of exposure to traffic fumes with childhood asthma and other respiratory symptoms.
2. To examine the effects of immigration to Italy on the prevalence of childhood asthma and other respiratory symptoms.
3. To examine the associations of maternal complications and procedures in pregnancy and at birth with the prevalence of childhood asthma and other respiratory symptoms.

COLLABORATORS: Dr Claudia Galassi, Professor Franco Merletti (University of Turin, Italy), Professor Francesco Forastiere (Local Health Authority, Rome, Italy)

CPHR RESEARCHER: Neil Pearce

KEY WORDS: Asthma, Child Health, Risk and Protective Factors, ISAAC, SIDRIA

9. Cancer and mortality in lead-exposed workers: The Lead Workers Study



AIMS:

1. Establish a cohort of lead-exposed workers in scheduled lead occupations in the 1970s and 1980s in Victoria, New South Wales and South Australia.
2. Measure the cancer incidence and mortality in this cohort, in particular for cancers of the kidney, central nervous system, stomach and lung.
3. Investigate dose-response relationships in this cohort of occupational lead exposure for those cancer subtypes where sufficient numbers exist.

COLLABORATORS:

Associate Professor Malcolm Sim, Dr Geza Benke, Ewan MacFarlane (Monash University Centre for Occupational and Environmental Health, Australia), Associate Professor Lin Fritschi (Western Australian Institute for Medical Research, Australia), Dr Dino Pisaniello (University of Adelaide, Australia)

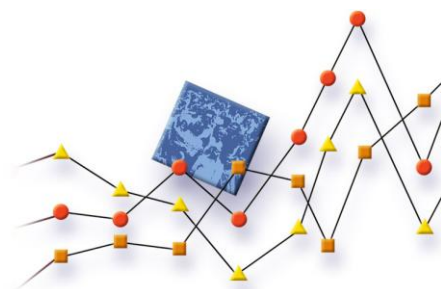
CPHR RESEARCHER:

David McLean

KEY WORDS:

Cancer, Occupational Health, Lead

10. Socioeconomic status, asthma and chronic bronchitis in a large community-based study



AIMS:

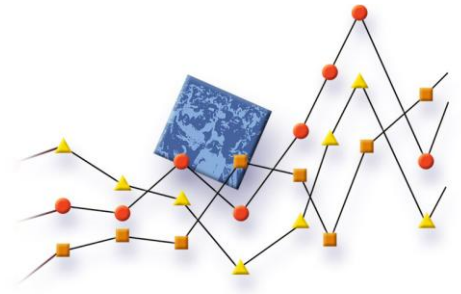
1. To investigate the relationship between socioeconomic status and the prevalence and incidence of asthma and chronic bronchitis using data from Phase II of the European Community Respiratory Health Survey (ECRHS II).
2. To investigate changes in these associations over time (between ECRHS I and ECRHS II).

COLLABORATORS: Professor Jordi Sunyer, Dr Jan-Paul Zock, Professor Josep Maria Antó, Professor Manolis Kogevinas (CREAL, Barcelona, Spain), Dr Deborah Jarvis (Royal Imperial College, London, UK), Dr Christer Jansen (Uppsala University, Uppsala, Sweden)

CPHR RESEARCHERS: Lis Ellison-Loschmann, Neil Pearce

KEY WORDS: Asthma, Socioeconomic Status, Time Trends

11. Immunoglobulin levels and risk of lymphoma in Spain



AIMS:

To investigate levels of IgE, IgM and IgG both prior to and post commencement of treatment, and evaluate lymphoma risk in relation to total and specific IgE levels.

COLLABORATORS:

Dr Silvia de Sanjosé, Dr Yolanda Benavente, Dr Rebecca Font (Epidemiology and Cancer Registry Unit, Institut Catala d'Oncologia, Barcelona, Spain), Dr Enric Buendia (Immunology-Allergy Dept, Hospital de Bellvitge, Barcelona, Spain), Dr Tomás Alvaro (Pathology, Hospital Verge de la Clinta, Tortosa, Spain), Professor Manolis Kogevinas (CREAL, Barcelona, Spain)

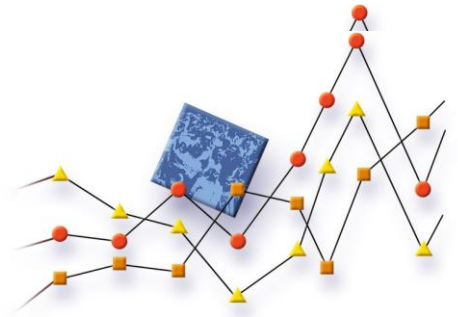
CPHR RESEARCHERS:

Lis Ellison-Loschmann, Jeroen Douwes

KEY WORDS:

Lymphoma, Immunoglobulins

12. Protection against Allergy: Study in Rural Environments (PASTURE)



AIMS:

1. To assess whether T-cell effector status is more characteristic of Th1 immunity in farmers' infants at 12 months of age compared to non-farming control infants.
2. To assess whether mothers' exposures during pregnancy to indoor endotoxin, unpasteurised milk, and barn environment are associated with Th1 immunity in their offspring.
3. To assess whether elevated levels of endotoxin in house dust and milk samples are associated with a maturation of initially Th2-like skewed immune responses to Th1 immunity, and a lack of IgE response to common allergens at age 12 months.
4. To assess whether the expression of genes related to the recognition of microbial products differs with respect to microbial exposures and a subject's genetic background (polymorphisms in these genes).
5. To assess whether subjects with polymorphisms in those genes differ with respect to the relation between environmental exposures and atopic outcomes.

COLLABORATORS:

Professor Erika von Mutius, Dr. Von Haunersche (Kinderklinik, Munich, Germany), Dr Charlotte Braun-Fahrlander (Institute for Social and Preventive Medicine, University of Basel, Switzerland), Dr Juha Pekkanen (National Public Health Institute, Kuopio, Finland), Dr Josef Riedler (Childrens Hospital, Salzburg, Austria), Dr Jean-Charles Dalphin (UFR Faculté de Médecine & Pharmacie, Besancon, France), Professor Harald Renz (Marburg, Germany), Professor Bert Brunekreef (Institute for Risk Assessment Sciences, Utrecht, The Netherlands), Dr Michael Kabesch (Munich, Germany), Dr Roger Lauener (Zürich, Switzerland)

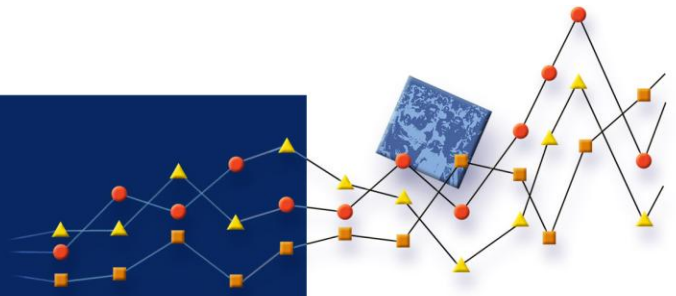
CPHR RESEARCHER:

Jeroen Douwes

KEY WORDS:

Asthma, Allergy, Farming, Respiratory Disease, Child Health

Training PGDipPH projects



Anita O'Boyle

Title: Congenital malformations

Supervisor: Barry Borman

Christine Martin

Title: The state of public health infrastructure in New Zealand

Supervisor: Barry Borman

Nandika Currey

Title: Are our Pacific Peoples OK? Evaluating Partner Violence Services for Pacific Peoples

Supervisor: Anna Matheson, Sitaleki Finau

Tevita Funaki

Title: Perspective on adherence to antihypertensive medications among Tongan patients: qualitative interviews at a West Auckland general practice

Supervisor: Sitaleki Finau

Wendy Donaldson

Title: A review of health workplace policies and practices for staff of Lakes DHB provider organisations

Supervisor: Ridvan Firestone

Justine Solomon

Title: A community-based physical activity programme: what are the wider benefits?

Supervisor: Anna Matheson

Marnie Reinfields

Title: Breastfeeding support and promotion in the community setting

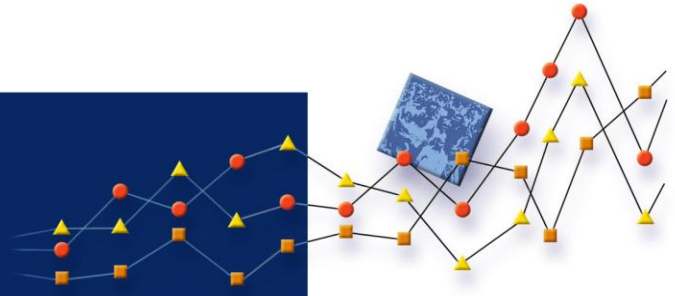
Supervisor: Anna Matheson

Christine Riddy

Title: What are the impacts on teachers' mental health and wellbeing during the implementation of the EBSI behaviour management system in two New Zealand primary schools?

Supervisor: Anna Matheson

Training MPH theses



Bianca Claas

Title: Access to oral health information among pregnant women

Supervisor: Lis Ellison-Loschmann

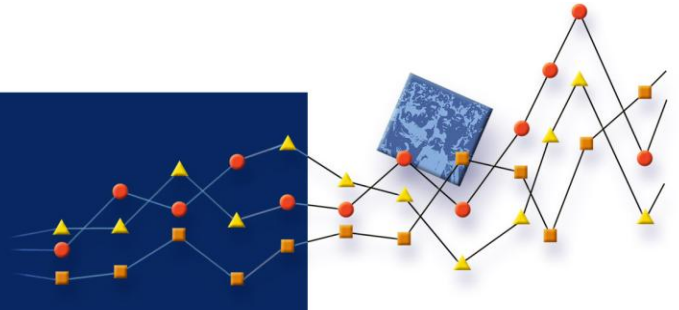
Submitted and awarded 2009.

Jodie Porter

Title: Tātou Rangatiratanga, Tātou Papakāinga, Tātou Whānau Ora

Supervisor: Anna Matheson

Masters students based in other research groups



Jason Kingsley

Title: Fungal allergy and exposure to fungi in asthma

Supervisors: Professor Euan Tovey (Woolcock Institute for Medical Research, University of Sydney, Australia), Jeroen Douwes

Ruth Hinz

Title: Hydrogen sulphide exposure and potential associated health effects in the adult population of Rotorua

Supervisors: Dr Neil Vince (Department of Earth Sciences, Massey University), Jeroen Douwes

Keriata Stuart

Title: Factors influencing Māori women's decisions about drinking alcohol during pregnancy: a qualitative study

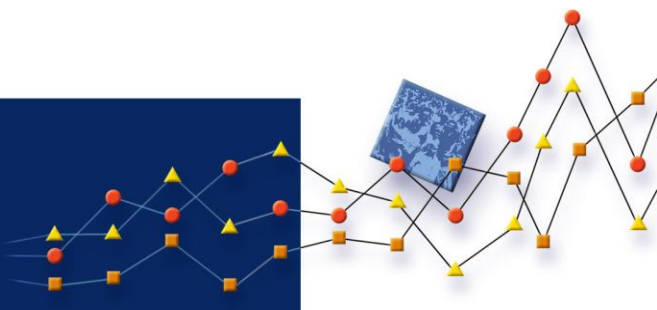
Supervisors: Dr Maureen Holdaway (Research Centre for Māori Health and Development, Massey University) and Lis Ellison-Loschmann

Toby Regan

Title: The "Dirty Determinant of Health": A review of intervention strategies to address income as a determinant of health

Supervisors: Dr Louise Signal (Wellington School of Medicine) and Anna Matheson

Training Doctoral



Naomi Brewer

Title: Epidemiological studies of cervical cancer in New Zealand

Supervisors: Barry Borman, Dr Mona Jeffreys (University of Bristol)

Collin Brooks

Title: Innate immunity and asthma

Supervisors: Jeroen Douwes, Dr Ian Hermanns (Malaghan Institute of Medical Research)

Marine Corbin

Title: Bayesian methods in epidemiology

Supervisors: Neil Pearce, Dr Milena Maule (University of Turin, Italy)

Amanda Eng

Title: Epidemiological studies of occupational exposures and health effects in the New Zealand workforce

Supervisors: Andrea 't Mannetje, Neil Pearce

Fiona McKenzie

Title: Breast cancer survival in New Zealand

Supervisors: Lis Ellison-Loschmann, Dr Mona Jeffreys (University of Bristol)

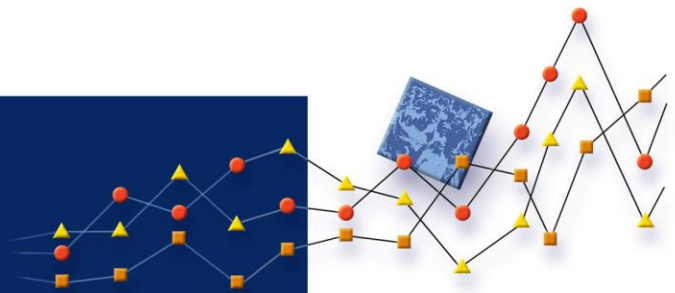
Ate Moala

HRC Pacific Health Research Training Fellow

Title: Health promotion in Pacific people

Supervisors: Neil Pearce, Dr Sitaleki Finau (Massey University)

Doctoral students based in other research groups



Diana Sarfati

Title: Developing a comorbidity index for New Zealand

Supervisors: Professor Peter Crampton (Wellington School of Medicine), Neil Pearce

Phatcha
Hirunwatthanaku

Title: The impact of a visual impairment on quality of life among older persons in a rural area of Northeastern Thailand

Supervisors: Professor Steve LaGrow (School of Health Sciences, Massey University), Barry Borman

Geoff Duff

Title: A multi-scale systems study of eye health services in New Zealand

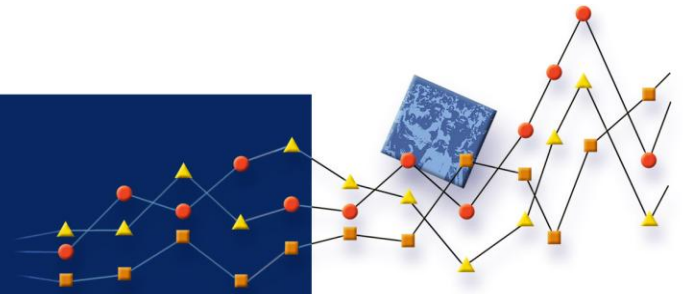
Supervisors: Dr Richard Edwards, Professor Peter Crampton (Wellington School of Medicine), Barry Borman

Brendon Stevenson

Title: Te Hoe Nuku Roa

Supervisors: Professor Chris Cunningham (Research Centre for Māori Health and Development, Massey University), Neil Pearce

Training Post-doctoral



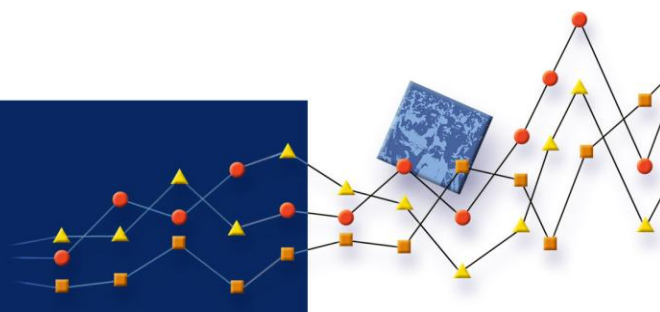
Sunia Foliaki

HRC Pacific Health Postdoctoral Research Fellow

Title: Cancer in Pacific populations

Supervisors: Neil Pearce, Dr Mona Jeffreys (University of Bristol)

Presentations



New Zealand Specialist Asthma Meeting. Auckland, February, 2009.

Douwes J. Effects of the environment on the TH2 pathway.

New Zealand Ergonomics Society Annual Meeting. Martinborough, May, 2009.

Widanarko B, Legg SJ, Stevenson M, Devereux JJ, **Eng A, 't Mannetje A, Cheng S, Douwes J, Ellison-Loschmann L, McLean D, Pearce N.** Prevalence of low back pain in relation to age, gender and occupation amongst New Zealand employees.

28th International Epilepsy Congress, Budapest, Hungary, June, 2009.

D'Souza W, Roberts H, Stankovich J, O'Brien T, Cook M, Pearce N. The prevalence and distribution of the idiopathic generalized epilepsies and their seizures in Tasmania, Australia. *Epilepsia* 2009; 50: 25-26 (abstract).

King Saud University, College of Medicine, Riyadh, Saudi Arabia, July, 2009.

Pearce N. What causes asthma?

Symposium to celebrate the 30th anniversary of the MSc in epidemiology, London School of Hygiene and Tropical Medicine, London, United Kingdom, July, 2009.

Pearce N. Epidemiology in a changing world.

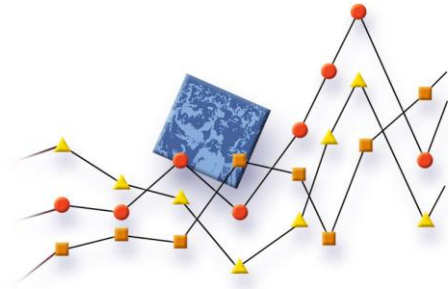
12th International Symposium on Veterinary Epidemiology and Economics, Durban, South Africa, August, 2009.

Pearce N. Research at the interface between human and veterinary epidemiology in occupational and environmental health.

XIX Annual Meeting of the Australasian Epidemiological Association, Dunedin, August, 2009.

Brewer N, Pearce N, Jeffreys M, Borman B, Ellison-Loschmann L. Does screening history explain the ethnic differences in stage at diagnosis of cervical cancer? *Australasian Epidemiologist* 2009; 16.2: 34 (abstract).

Cheng S, Abbott S, Douwes J. Association of microbial contamination in drinking water with asthma, allergy and gastrointestinal illness. *Australasian Epidemiologist* 2009; 16.2: 43 (abstract).



Corbin M, 't Mannetje A, Maule M, Dryson E, McLean D, Walls C, McKenzie F, Cheng S, Pearce N.

Occupational risk factors for lung cancer in New Zealand: preliminary results of a case-control study. *Australasian Epidemiologist* 2009; 16.2: 33-34 (abstract).

Eng A, Ellison-Loschmann L, 't Mannetje A, Douwes J, McLean D, Pearce N.

Ethnic differences in occupational exposure patterns. *Australasian Epidemiologist* 2009; 16.2: 67 (abstract).

Holmes E, Wright C, Pearce N, Borman B. Occupational mortality in New Zealand males 2001-2005. *Australasian Epidemiologist* 2009; 16.2: 67 (abstract).

Matheson A. Complexity and feedback: the influence of context on the effectiveness of community-based interventions to reduce health inequalities. *Australasian Epidemiologist* 2009; 16.2: 73 (abstract).

McLean D, Brooks C, Slater T, Cheng S, Douwes J.

Exposure to wood dust, bacterial endotoxin and fungal glucan in New Zealand sawmill workers: effects on respiratory symptoms. *Australasian Epidemiologist* 2009; 16.2: 66 (abstract).

Van Dalen C, Harding E, Parkin J, Pearce N, Cheng S, Douwes J. BMI and asthma in New Zealand adolescents. *Australasian Epidemiologist* 2009; 16.2: 49 (abstract).

Public Health Association of New Zealand Annual Conference, Dunedin, September, 2009.

Pearce N. Epidemiology and public health in a changing world.

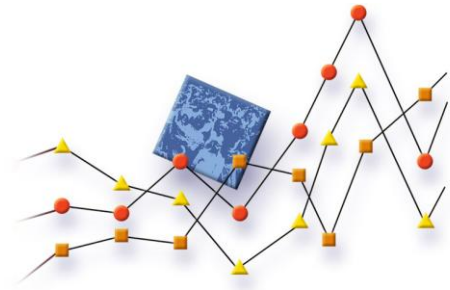
Pearce N. The future of public health in New Zealand.

International Society for Environmental Epidemiology (ISEE) Annual Conference, Dublin, September, 2009.

Borman B, White P, Gear I. A spatial case-control study of birth defects and exposure to spraying *Bacillus thuringiensis var. kurstaki (Btk)* for painted apple moth *Teia anartoides*, Walker in New Zealand.

RNZCGP Annual Scientific Conference, Wellington October, 2009.

Van Dalen C, Harding E, Parkin J, Pearce N, Cheng S, Douwes J. BMI and asthma in New Zealand adolescents.



Van Dalen C, Harding E, Pearce N. Assessment of asthma control in primary care.

XXXIII Congress of the Italian Association of Epidemiology, Modena, Italy, October, 2009.

Pearce N. The importance of international collaborations: the example of ISAAC.

Inaugural Professorial Public Lecture, Massey University, Wellington, October, 2009.

Douwes J. Prevention of allergies and asthma – lessons from the farm environment.

Australasian Sleep Association 21st Annual Scientific Meeting, Melbourne, Australia October, 2009.

Jay S, Gander P, Eng A, 't Mannetje A, Cheng S, Douwes J, Ellison-Loschmann L, McLean D, Pearce N. Hazard prevalence in the workplace and the potential health implications for New Zealanders who do not work the standard work week: a preliminary study.

Fiji Food Summit, Suva, Fiji, October, 2009.

Matheson D. The benefits of a regional approach and a Pacific declaration on Food Security.

Imperial College, London, United Kingdom, November, 2009.

Pearce N. Environmental epidemiology in a changing world.

ISAAC Symposium, University of Yucatan, Merida, Mexico, November, 2009.

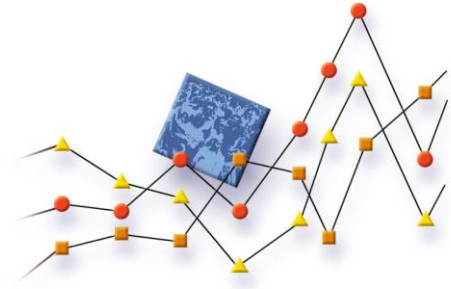
Pearce N. Asthma genetics, and the environment.

Bocconi University, Milan, November, 2009.

Matheson D, Matheson A. The social determinants of health and universal health coverage.

63rd Annual Meeting of the American Epilepsy Society, Boston, MA, USA, December, 2009.

D'Souza WJ, Roberts H, O'Brien T, Pearce N, Cook M. The prevalence and distribution of the idiopathic generalized epilepsies and their seizures in Tasmania, Australia. *Epilepsia* 2009; 50: 421 (abstract).



Workshop on health equity in the Asia-Pacific region, Taipei, Taiwan, December, 2009.

Matheson D. Australian and New Zealand approaches to health equity.

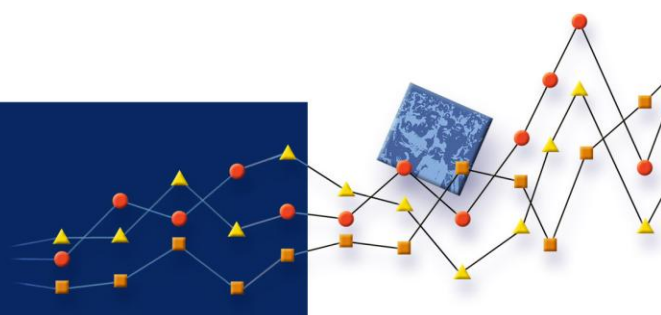
Association of Salaried Medical Specialists, Wellington, December, 2009.

Matheson D. How the New Zealand health system compares with other countries.

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McLean D, 't Mannetje A, Corbin M, Dryson E, Walls C, Cheng S, McKenzie F, Pearce N. The burden of occupational cancer in New Zealand: 10 years of research at the Centre for Public Health Research.

Publications



Journals

Ait-Khaled N, **Pearce N**, Anderson HR, Ellwood P, Montefort S, Shah J, and the ISAAC Phase Three Study Group. Global map of the prevalence of symptoms of rhinoconjunctivitis in children: The International Study of Asthma and Allergies in Childhood (ISAAC) Phase Three. *Allergy* 2009; 64: 123-148.

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Brewer N, Pearce N, Jeffreys M, White P, Ellison-Loschmann L. Demographic differences in stage at diagnosis and cervical cancer survival in New Zealand 1994-2005. *J Women's Health* 2009; 18: 955-963.

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asthma and allergic disease: a global relationship in ISAAC Phase Three. *Environ Health Perspectives* 2009; 117: 1791-1798.

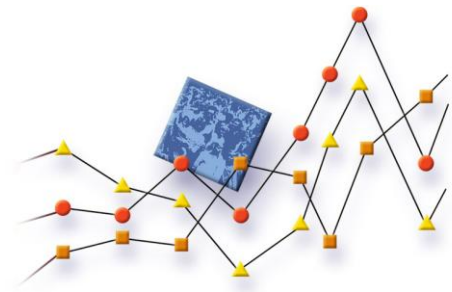
Douwes J, Brooks C, Pearce N. The protective effects of farming on allergies and asthma: have we learnt anything since 1873? *Expert Rev Clin Immunol* 2009; 5: 213-219.

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Eduard W, **Pearce N, Douwes J.** Chronic bronchitis, COPD and lung function in farmers: the role of biological agents. *Chest* 2009; 136: 716-725.

Ellison-Loschmann L, Pattermore PK, Asher MI, Clayton TO, Crane J, Ellwood P, Mackay RJ, Mitchell EA, Moyes C, Pearce N, Stewart AW. Ethnic differences in time trends in asthma prevalence in New Zealand: ISAAC Phases I and III. *Int J Tuberc Lung Dis* 2009; 13: 775-782.

Ellwood P, Williams H, Ait-Khaled N, Bjorksten B, Robertson C, and **the ISAAC Phase Three Study Group.**



Translation of questions: the International Study of Asthma and Allergies in Childhood experience. *Int J Tuberc Lung Dis* 2009; 13: 1174-1182.

Firestone RT, Wong K-C, Ellison-Loschmann L, Pearce N, Jeffreys M. Ovarian cancer characteristics of women residing in Aotearoa, New Zealand. *J Epidemiol Comm Health* 2009; 63: 814-819.

Flohr C, Weinmayr G, Weiland SK, Addo-Yobo E, Annesi-Maesano I, Bjorksten B, Braback L, Buchele G, Chico M, Cooper P, Clausen M, El Sharif B, Martinez Gimeno A, Mathur RS, von Mutius E, Morales Suarez-Varela M, **Pearce N**, Svabe V, Wong GWK, Yu M, Zhong NS, Williams HC, and the ISAAC Phase Two Study Group. How well do questionnaires perform compared with physical examination in detecting flexural eczema? Findings from the International Study of Asthma and Allergies in Childhood (ISAAC) Phase Two. *Br J Dermatol* 2009; 161: 846-853.

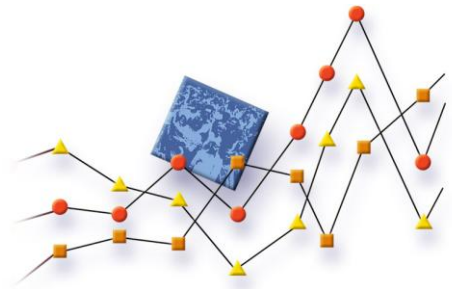
Foliaki S, Fakakovikaetau T, D'Souza W, Latu S, Tutone V, Cheng S, Pearce N. Reduction in asthma morbidity following a community-based asthma self-management programme in

Tonga. *Int J Tuberc Lung Dis* 2009; 13: 142-147.

Foliaki S, Pearce N, Björkstén B, Mallol J, Montefort S, von Mutius E, and the ISAAC Phase Three Study Group. Antibiotic use in infancy and symptoms of asthma, rhinoconjunctivitis and eczema in 6-7 year olds: ISAAC Phase Three. *J All Clin Immunol* 2009; 124: 982-989.

Genuneit J, Cantelmo JL, Weinmayr G, Wong GWK, Cooper PJ, Riiikjäär MA, Gotua M, Kabesch M, von Mutius E, Forastiere F, Crane J, Nystad W, El Sharif N, Batllés-Garrido J, García-Marcos L, García-Hernández G, Morales Suárez-Varela M, Nilsson L, Bråbäck L, Saraçlar Y, Weiland SK, Cookson WOC, Strachan DP, Moffatt MF, and **the ISAAC Phase Two Study Group.** A multi-centre study of candidate genes for wheeze and allergy. *The International Study of Asthma and Allergies in Childhood Phase Two. Clin Exp Allergy* 2009; 39: 1875-1888.

Harrad S, Ibarra C, Robson M, Melymuk L, Zhang X, Diamond M, **Douwes J.** Polychlorinated biphenyls in domestic dust from Canada, New Zealand, United Kingdom and United States: implications for human exposure. *Chemosphere* 2009; 76: 232-238.



Jeffreys M, Sarfati D, Stevanovic V, Tobias M, Lewis C, **Pearce N**, Blakely T. Socioeconomic inequalities in cancer survival in New Zealand: the role of extent of disease at diagnosis. *Cancer Epidemiol Biomarkers & Prevention* 2009; 18: 915-921.

Lai CKW, Beasley R, Crane J, **Foliaki S**, Shah J, Weiland S, and the ISAAC Phase Three Study Group. Global variation in the prevalence and severity of asthma symptoms: Phase Three of the International Study of Asthma and Allergies in Childhood (ISAAC). *Thorax* 2009; 64: 4767-483.

Matheson A, Dew K, Cumming J. Complexity, evaluation and the effectiveness of community-based interventions to reduce health inequalities. *Health Promotion J Aust* 2009; 20: 221-226.

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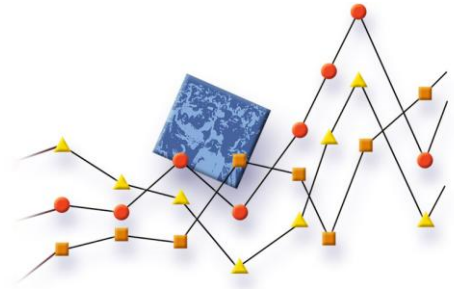
McLean D, Eng A, Dryson E, Walls C, Harding E, Wong KC, Cheng S, 't Mannetje A, Ellison-Loschmann L, Slater T, Shoemack P, Pearce N. Morbidity in former sawmill workers exposed to

pentachlorophenol (PCP): a cross-sectional study in New Zealand. *Am J Ind Med* 2009; 52: 271-281.

McLean D, Eng A, Walls C, Dryson E, Harawira J, **Cheng S, Wong KC, 't Mannetje A, Gray M, Shoemack P, Smith A, Pearce N.** Serum dioxin levels in former New Zealand sawmill workers twenty years after exposure to pentachlorophenol (PCP) ceased. *Chemosphere* 2009; 74: 962-967.

McLean D, 't Mannetje A, Dryson E, Walls C, McKenzie F, Maule M, **Cheng S**, Cunningham C, Kromhout H, Boffetta P, Blair A, **Pearce N.** Leukaemia and occupation: A New Zealand Cancer Registry-based case-control study. *Int J Epidemiol* 2009; 38: 594-606.

Migliore E, Berti G, Galassi C, **Pearce N**, Forastiere F, Calabrese R, Armenio L, Biggeri A, Bisanti L, Bugiani M, Cadum E, Chellini E, Dell'Orco V, Giannella G, Sestini P, Corbo G, Pistelli R, Viegi G, Ciccone G, and SIDRIA-2 Collaborative Group. Respiratory symptoms in children living near busy roads and their relationship to car and truck traffic: results of an Italian multicentre study (SIDRIA-2). *Environmental Health* 2009; 8: 27.



Mitchell EA, Stewart AW, Clayton T, Asher MI, Ellwood P, Mackay R, Moyes C, Pattemore PK, **Pearce N**. A cross sectional survey of risk factors for asthma in 6-7 year old children in New Zealand: International Study of Asthma and Allergies in Childhood Phase Three. *J Paed Child Health* 2009; 45: 375-383.

Moore MA, Baumann F, **Foliaki S**, Jagilly R, Govind SR, Taga Y, Vinit T, Sobue T. Cancer epidemiology in the Pacific Islands - past, present and future. *Asian Pacific J cancer Prev* 2009; 10 (suppl) 93-98.

Nagel G, Buchele G, Weinmayr G, Bjorksten B, Chen Y-Z, Wang H, Nystad W, Saraclar Y, Braback L, Batlles-Garrido J, Garcia-Hernandez G, Weiland SK, and **the ISAAC Phase Two Study Group**. Effect of breastfeeding on asthma, lung function and bronchial hyperreactivity in ISAAC Phase II. *Eur Respir J* 2009; 33: 993-1002.

Odhiambo J, Williams H, Clayton T, Robertson C, Asher MI, and **the ISAAC Phase Three Study group**. Global variations in prevalence of eczema symptoms in children from ISAAC Phase Three. *J Allergy Clin Immunol* 2009; 12: 1251-1258.

Pearce N, Douwes J. Time for species-course epidemiology? *Int J Epidemiol* 2009; 38: 403-410.

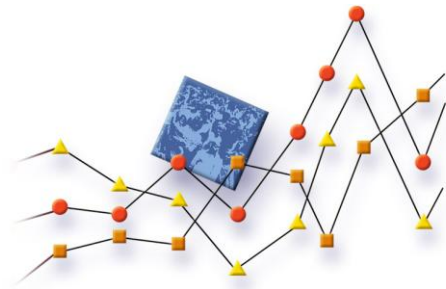
Pearce N. Ian Prior and epidemiology in New Zealand. *J Epidemiol Comm Health* 2009; 63: 685-687.

Pearce N. The use of beta-agonists and the risk of death and near death from asthma. *J Clin Epidemiol* 2009; 62: 582-587.

Van Dalen CJ, Aldridge RE, Chan T, Senthilmohan R, Hancox RJ, Cowan JO, Taylor DR, Town GI, Kettle AJ. Bromotyrosines in sputum proteins and treatment effects of terbutaline and budesonide in asthma. *Ann Allergy Asthma and Immunol* 2009; 103: 348-353.

Conference proceedings and book chapters

Douwes J, Boezen M, **Pearce N**. Chronic obstructive pulmonary disease and asthma. In: Detels R, Beaglehole R, Lansang MA, Gulliford M (eds). *Oxford textbook of public health*. 5th ed. Vol 3. Chapter 9.4. Oxford: Oxford University Press, 2009, pp 1021-1045.



Douwes J, Building dampness and its effect on indoor exposure to biological and non-biological pollutants. In: WHO Guidelines for indoor air quality: dampness and mould. Copenhagen: WHO Regional Office for Europe, 2009, pp 7-29.

Mendell MJ, Mirer AG, **Cheung K, Douwes J**, Sigsgaard T, Bonlokke J, Meyer HW, Hirvonen M-R, Roponen M. Health effects associated with dampness and mould. In: WHO Guidelines for indoor air quality: dampness and mould. Copenhagen: WHO Regional Office for Europe, 2009, pp 63-92.

Pearce N. Occupational epidemiology. In: Olsen J, Saracci R, Trichopoulos D (eds). Teaching epidemiology. 3rd ed. Oxford: Oxford University Press, 2009; pp 115-126.

Books and Reports

Gander P, **Pearce N**, Langley J, **Wagstaffe M**. The evolving work environment in New Zealand. Implications for occupational health and safety: Report to the Minister of Labour. Wellington: NOHSAC, 2009.

't Mannetje A, Slater T, Mclean D, Eng A, Briar C, Douwes J. Women's occupational health and safety in New Zealand. Wellington: NOHSAC, 2009.

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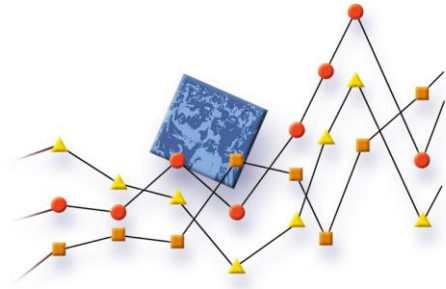
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Other Publications

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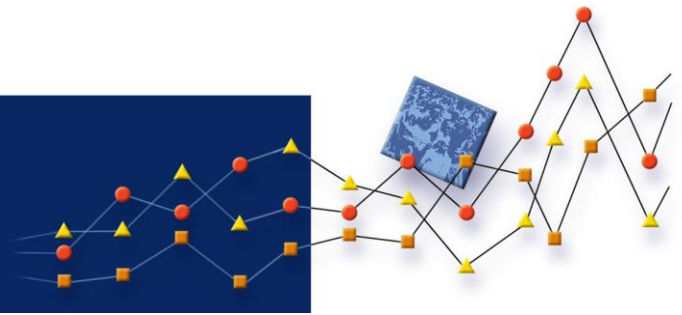
Pearce N, Douwes J. Epidemiology between astronomy and astrology - response. Int J Epidemiol 2009; 38: 610-611 (letter).



Pearce N. Review of: Kabat GC. Hying health risks: environmental hazards in daily life and the science of epidemiology. *Int J Epidemiol* 2009; 38: 1746-1748.

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Seminars



10 February - Steven T. Fleming. How to Adjust for Misclassification Bias Case Study: Smoking and Low Birth Weight Newborns.

03 March - Gail Garvey, Patricia Valery. Indigenous research program including recent initiatives in cancer and the outcomes of their research in the far north of Australia (Torres Strait) on asthma.

06 March - Mona Jeffreys. Socioeconomic inequalities in cancer survival in New Zealand.

31 March - Sebastian Morgan-Lynch. Getting to grips with health information privacy.

5 May - Neil Pearce. How to analyse a data set with many variables.

4 August - Allan Smith. Further findings on mortality in young adults following early life exposure to arsenic.

25 August - Naomi Brewer. Does screening history explain the ethnic differences in stage at diagnosis of cervical cancer?
- Amanda Eng. Differences in Occupational Exposure Patterns;
- Marine Corbin. Occupation

and Lung Cancer: Results from a New Zealand cancer registry-based case-control study.

28 August - Anthony D LaMontagne. Intervention research for the improvement of Occupational Health & Safety policy and practice.

7 September - Stephen Kunitz. Political culture, social capital, and mortality in America.

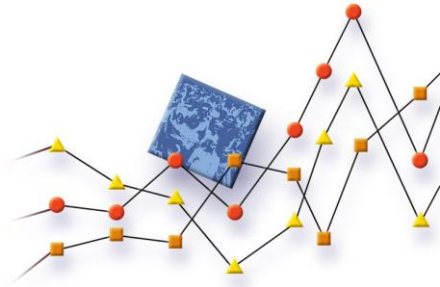
8 September - Sander Greenland. Investigator bias as a major problem in health research and justice in the United States.

22 September - Marine Corbin. Bayesian methods in epidemiology.

8 October - Jeroen Douwes. Prevention of allergies and asthma: lessons from the farm environment.

13 October - Bianca Claas. Self-reported oral health and access to dental care among pregnant women in Wellington.

27 October - Andrea 't Mannetje. Non-response and its effects in a national occupational exposure and health survey: 15 lessons from the Burden Study.

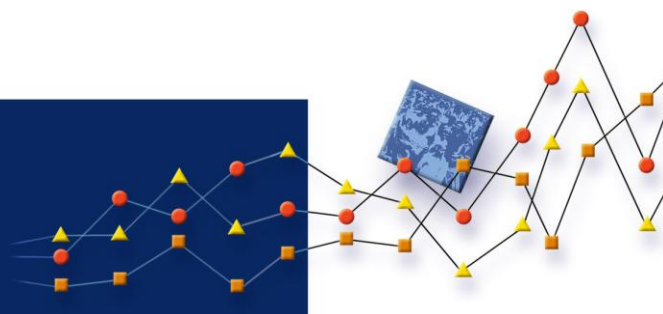


10 November - Collin Brooks.
Innate immunity in asthma.

20 November - James
McGlothlin. Video Exposure
Monitoring: The development
and application of an
occupational hygiene exposure
and risk assessment tool.

24 November - Nina
Hermansen. Eyemother -
Sampi birth stories.

Advisory Committees



Policy

Academic Advisory Group of the Health Promotion Forum of New Zealand (Anna Matheson)

Chronic Respiratory Diseases Expert Group, WHO Global Burden of Disease Project (Neil Pearce)

College of Humanities and Social Sciences Research Committee, Massey University (Jeroen Douwes)

Committee on Guidance for Biological Agents in the Indoor Environment. World Health Organisation (WHO) (Jeroen Douwes)

Guideline Development Team. Guidelines for the Management of Early Breast Cancer. New Zealand Guidelines Group (Fiona McKenzie)

Medical Advisory Committee, Food Standards Australia New Zealand (Neil Pearce)

Ministerial Advisory Panel on Work-related Gradual Process, Disease, or Infection. Accident Compensation Corporation (ACC) (David McLean)

National Advisory Committee on Health and Disability (National Health Committee). Ministry of Health (Neil Pearce)

National Occupational Health and Safety Advisory Committee (NOHSAC). Department of Labour (Neil Pearce, Chair; Evan Dryson)

Occupational Risks Expert Group, WHO Global Burden of Disease Project (Neil Pearce)

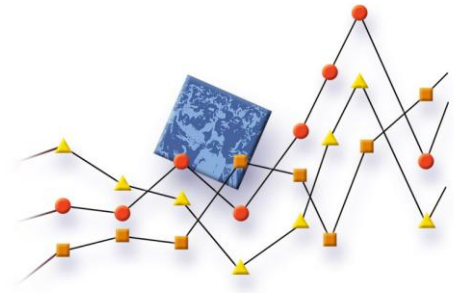
Organochlorines Technical Advisory Group. Ministry of Health (Andrea 't Mannetje, David McLean)

Pacific Advisory Drafting Group. Massey University (Sunia Foliaki)

Respiratory Disease Expert Group, WHO Global Burden of Disease Project (Neil Pearce)

Technical Review Panel, Asthma Drug Facility, International Union Against Tuberculosis and Lung Disease (IUATLD) (Neil Pearce).

WHO Working Group on Guidelines for Indoor Air Quality: Dampness, Mould and Ventilation (Jeroen Douwes).



Working Group on Burden of Cancer from Asbestos Exposure, International Agency for Research on Cancer (Neil Pearce)

WHO International Agency for Research on Cancer (IARC) Working Group on carcinogenicity of some aromatic amines, organic dyes, and related exposures (Andrea 't Mannetje)

Funding

Health Research Council Public Health Research Committee (Lis Ellison-Loschmann)

International Union Against Cancer (UICC) International Cancer Technology Transfer Fellowships (Neil Pearce)

Italian Association for Cancer Research. Study Section (Neil Pearce)

Wellcome Trust PhD Programme Assessment Committee (Neil Pearce)

Professional societies

International Epidemiology Association (Neil Pearce, President)

Ethics

Massey University Human Ethics Committee (David McLean, Tania Slater)

Conferences

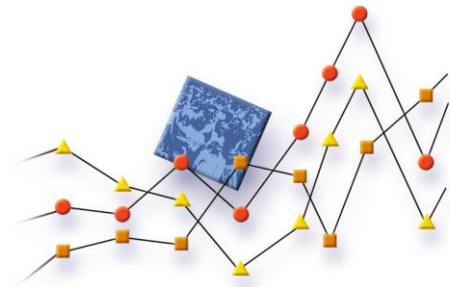
Scientific Committee, Annual Meeting of the Australasian Epidemiology Association, Dunedin, 2009 (Neil Pearce)

International Advisory Committee of the XIXth World Congress of Epidemiology, Edinburgh, Scotland (Neil Pearce)

Research

Advisory Committee for Cancer Control Council Survey of Experiences of Cancer Patients Accessing Treatment (Barry Borman, Neil Pearce)

Advisory Committee for Citizen's Jury on Privacy and Research on Medicine Safety, University of Otago (Neil Pearce)



Advisory Board for Healthwise
Alumina Workforce Studies.
Monash University, Melbourne,
Australia (Neil Pearce, Chair)

Advisory Committee for
Tasmanian Epilepsy Register
(Neil Pearce)

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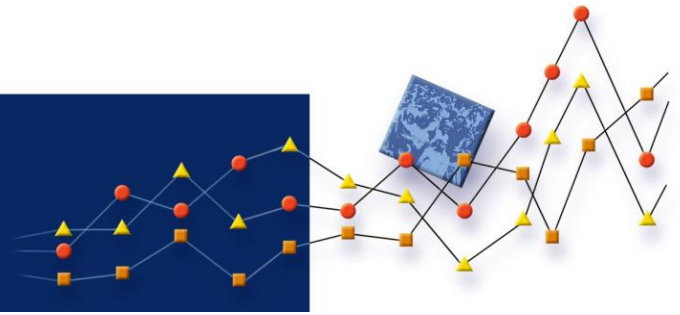
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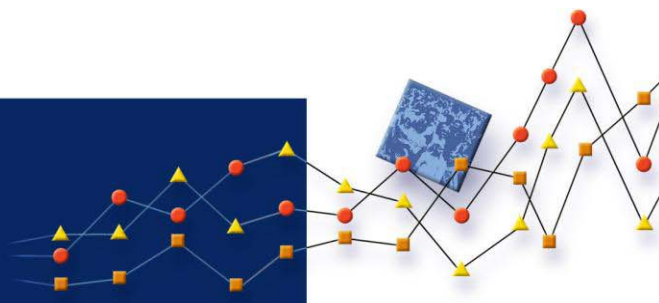
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