# ARCPOH

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The Australian Research Centre for Population Oral Health (ARCPOH) was established by the University of Adelaide in 2001 to undertake research and research training in population oral health at a standard that is internationally recognised to be of the highest quality.

Population oral health is concerned with the community’s oral health, access to dental care, provision of dental care and the labour force which produces dental care. It is that part of research in dentistry and population oral health which focuses on the population as the patient, rather than on the individual. Through such research, improvements in oral health and better dental care are sought for all Australians.

Collectively, oral diseases and disorders create substantial impact and disability. The challenges of improving oral health and providing better dental care are far from fully addressed and warrant attention as public health issues. Oral health problems share many risk factors and directions for intervention with wider general health problems, including health promotion and access to primary care. Special attention needs to be paid to particular groups in the community; for example, those dwelling in rural and remote areas, Indigenous persons, migrants, the aged and the disadvantaged.

For oral health to make a stronger contribution to public health in Australia, improved information and understanding of oral health and dental care is needed as a prerequisite for the development and implementation of informed public health policy.
Contributors to the ARCPOH research program

The hub of ARCPOH is the University of Adelaide School of Dentistry’s academic areas of Population Oral Health, Oral Epidemiology and Geriatric Oral Health. In addition to core teaching and research personnel, ARCPOH includes the Australian Institute of Health and Welfare Dental Statistics and Research Unit (DSRU), the Dental Practice Education Research Unit (DPERU), funded by Colgate Oral Care, the National Oral Health Promotion Clearinghouse (NOHPC), the Indigenous Oral Health Unit (IOHU) and the Health Services Research Unit (HSRU).

Research collaborators include the University of Adelaide Discipline of Public Health, Centre for Military and Veterans’ Health, Monash University Centre for Health Economics, Deakin University, and Menzies School for Health Research; the dental schools of several universities (particularly Melbourne, Sydney, North Carolina at Chapel Hill and Otago, NZ); Pelotas Federal University, Santa Catarina Federal University, and University of São Paulo (Brazil); Department of Epidemiology and Public Health, The University College London; major health agencies such as the Australian Institute of Health and Welfare (AIHW), the Australian Government Department of Health (AGDH), the South Australian Department of Health (SADH) and the South Australian Dental Service (SADS); and commercial entities including Colgate Oral Care.

Aims

ARCPOH aims to:

> continue to extend the research program and associated research training that is currently undertaken in Adelaide and with colleagues elsewhere in Australia and overseas
> extend and strengthen collaborative relationships with researchers in Australia and overseas, bringing distinguished and stimulating visitors to Adelaide and, through ongoing interaction, fostering synergies that will increase the centre’s scholarly output
> attract postgraduate research students of the highest potential, and
> increase and diversify the financial support for the centre’s research, including necessary infrastructure.

Internal collaborators

School of Dentistry
> Population Oral Health
> Oral Epidemiology
> Geriatric Oral Health
> AIHW Dental Statistics and Research Unit (DSRU)
> Colgate Oral Care Dental Practice Education Research Unit (DPERU)
> National Oral Health Promotion Clearinghouse (NOHPC)
> Colgate Australian Clinical Dental Research Centre (CACDRC)
> Indigenous Oral Health Unit (IOHU)
> Health Services Research Unit (HSRU)

Faculty of Health Sciences (FHS)
> School of Public Health
> Centre for Military and Veterans’ Health (the University of Adelaide)

External collaborators

Universities
> Melbourne, Sydney, Tasmania, Western Australia, Monash, Deakin, Otago, North Carolina, Menzies School for Health Research, Centre for Military and Veterans’ Health (the University of Adelaide)

Health agencies
> Australian Institute of Health and Welfare (AIHW)
> Australian Government Department of Health (AGDH)
> South Australian Department of Health (SADH)
> South Australian Dental Service (SADS)
ARCPOH Management

Across the last ten years ARCPOH has had a team approach to its management. In 2014, ARCPOH had the following management positions:

>- Professor Marco Peres (Director, ARCPOH)
>- Dr Liana Luzzi (Director, AIHW DSRU Deputy Director, ARCPOH)
>- Associate Professor David Brennan (Director, HSRU)
>- Dr Rati Lalloo (Acting Director, DPERU; Clearinghouse)
>- Associate Professor Lisa Jamieson (Director, IOHU).
>- Associate Professor Loc Do
>- Associate Professor Karen Peres
>- Associate Professor Jason Armfield

Professor Marco A Peres

Director, ARCPOH
Professor of Population Oral Health

Marco Peres joined ARCPOH in 2012 as Professor of Population Oral Health and is Director of the Australian Research Centre for Population Oral Health. Marco is a qualified dentist with a background in population oral health and epidemiology. Marco’s research areas include life course epidemiology, inequalities in oral health and surveillance in oral health. He is involved in four population-based birth cohort studies in Brazil and in Australia, and one population-based cohort study in Brazil. Marco is also involved in the preparation of the next National Survey of Adult Oral Health.

He is a regional councillor—Asia and Pacific region— for the International Dental Research Association Oral Health Inequalities Research Network (IADR-GOHIRA).

Dr Liana Luzzi

Deputy Director, ARCPOH
Director, AIHW DSRU Senior Research Fellow

Liana Luzzi is a Senior Research Fellow and joined ARCPOH in 1999. She completed her PhD in Dentistry in 2005 and has a background in statistics (BSc (Ma.&Comp. Sc.) (Hons)). Liana has been involved in dental health services research and in analysing data relating to oral health and access to dental care. She has worked on a range of projects involving both cross-sectional and longitudinal analysis of service use such as research examining public dental service utilisation in South Australia. Her areas of interest include use of dental health services, access to dental care, factors influencing dental expenditure and dentist job satisfaction.

Liana is involved in undergraduate teaching at the University and currently co-ordinates and teaches the course, ‘Evidence Based Dentistry’ to first year BDS and BOH students.
Associate Professor David S Brennan
Director, HSRU
Principal Research Fellow

David Brennan, BA (Hons), Grad. Dip. (Computer & Information Science), MPH, PhD, undertakes health services research and oral epidemiological analysis. His PhD research comprised investigating the influence of provider, practice and patient factors on variation in rates of service provision. He was awarded a Career Development Award fellowship in population health from the NHMRC to investigate use of services and oral health outcomes over the period 2010 to 2013. He served on the editorial boards of the Journal of Dental Research and Health and Quality of Life Outcomes, and is Associate Editor for BMC Research Notes. In 2012 he commenced work as chief investigator on research under an NHMRC funded Centre of Research Excellence in Health Services Research and the APHCR funded Centre of Research Excellence in Primary Oral Health Care.

Associate Professor Jason Armfield
Principal Research Fellow

Jason Armfield received his PhD in Dentistry from the University of Adelaide in 2008 and also holds a Bachelor of Arts (Hons) in Psychology from the Flinders University of South Australia. Jason has previously been awarded an NHMRC Public Health (Overseas) Early Career Fellowship and was awarded a further 4-year NHMRC Career Development Fellowship commencing in 2013. Between 2009 and 2011 he was a Visiting Scholar at the Dental Fears Research Clinic at the University of Washington in Seattle. He has worked at ARCPOH in a research capacity since 1997, has been continuously involved in teaching within the School of Dentistry since 1999, and has been involved in supervising several higher grade students. Jason is on the Editorial Board of Social Science and Dentistry and BMC Oral Health, on the advisory board of Community Dentistry and Oral Epidemiology, and is Treasurer of the Australian and New Zealand (ANZ) Division of the International Association for Dental Research (IADR).

Associate Professor Lisa M Jamieson
Director, IOHU
Principal Research Fellow

Lisa Jamieson BDS, MComDent, PhD, has a keen interest in oral health research of Indigenous populations, both in Australia and internationally. In 2011 Lisa was involved in establishing the University of Adelaide’s Indigenous Oral Health Unit (IOHU) which is embedded within ARCPOH. She is the Director of the IOHU and is currently leading three randomised controlled trials involving Indigenous oral health. These studies are based in South Australia, the Northern Territory and internationally, respectively. She is additionally involved in oral health research initiatives involving homeless populations in South Australia. She received her PhD from the University of Otago, New Zealand, after completing her Masters and Bachelor degrees there. Lisa is the recipient of an NHMRC Career Development Award and a member of the International Association for Dental Research. Lisa spent considerable time working as a dental volunteer in developing countries before completing her PhD and joining ARCPOH in 2004.

Associate Professor Loc Do
Principal Research Fellow

Loc Do, BDS, MScDent, PhD, is a dentist and an oral epidemiologist with a special interest in social and clinical oral epidemiology. He began working at ARCPOH in 2004. Loc has a wide range of research interests including; oral epidemiological measurement of dental diseases; quantitative analysis of oral epidemiological data including multilevel analysis; risk and benefit trade-off in the use of fluorides in children; natural history of dental fluorosis; socio-economic inequality in oral health; oral health-related quality of life; smoking as a risk factor for periodontal diseases; and effectiveness and safety of water fluoridation in children. Currently, he is a Chief Investigator of the National Child Oral Health Study (NCOHS) and a birth cohort study investigating the impact of socioeconomic inequality on child oral health, which is funded by NHMRC. Loc is an Associate Editor of BMC Oral Health and is a member of various committees of the International Association of Dental Research (IADR).

Associate Professor Karen Peres
Principal Research Fellow

Karen is a dentist and worked as a paediatric dental practitioner in Brazil from 1985 to 2006. She received her Masters in Paediatric Dentistry from Federal University of Santa Catarina (UFSC) and also in Public Health from University of Sao Paulo, Brazil. She has a PhD in Public Health (Epidemiology) from the University of Sao Paulo, Brazil. Karen’s main research interests are in the epidemiology of oral diseases, particularly in social inequality in oral health and life course.

She worked as one of the coordinators for the National Oral Health Survey carried out in 2010, Brazil. Karen has been involved in oral health studies nested in the Pelotas (Brazil) birth cohort studies. Together with Professor Marco Peres and Flavio Demarco, Karen coordinated the oral health studies of three Pelotas birth cohort studies starting in 1982, 1993 and 2004. She is also involved in other large cohort studies in Florianopolis, Brazil, the EPIFLORIPA study, a cohort of adults.

Dr Rati Lalloo
Acting Director, Clearinghouse, DPERU Senior Research Fellow

Rati is a dental public specialist, having completed his undergraduate degree in dentistry in 1986, an honours degree in Epidemiology in 1992, a Masters degree in Community Dentistry in 1994 and a PhD in Dental Public Health at the University College London in 2002, under the supervision of Professor Aubrey Shaiehm. Rati’s main research interests vary across many dental public health issues including evidence-based dentistry, oral health-related quality of life and health inequalities. Prior to commencing at ARCPOH, he was the Colgate Chair and Professor: Rural, Remote and Indigenous Oral Health, in the School of Dentistry and Oral Health, Griffith University, Queensland. He has previously worked as an academic at two dental schools in South Africa for almost 20 years. During this time he has been extensively involved in the training of under- and post-graduate dental students, dental public health related research and management responsibilities at department, school and university levels.
Governance

In formal terms ARCPOH is organisationally a component of the University of Adelaide. Its Director, like the heads of departments, other centres and academic units in the University, is responsible through the Dean of the School of Dentistry and Executive Dean of the Faculty of Health Sciences (FHS) to the Vice-Chancellor and Council. The four component units of ARCPOH are also responsible to their respective stakeholders. Through the Director of the Dental Practice Education Research Unit (DPERU) there is a responsibility to Colgate-Palmolive Australia, and through the Director of the Australian Institute of Health and Welfare’s Dental Statistics and Research Unit (AIHW DSRU) there is a responsibility to the Director and Board of AIHW. The National Oral Health Promotion Clearinghouse (NOHPC) is also located within ARCPOH. The Clearinghouse has a separate Advisory Committee. It has a responsibility to state/territory dental authorities and the Monitoring Group for Australia’s National Oral Health Plan (NOHP) which reports to the Australian Health Ministers’ Advisory Council (AHMAC) via the Australian Population Health Development Principal Committee (APHDPC). The Indigenous Oral Health Unit (IOHU) was formally established within ARCPOH in December 2011. The Unit is governed by an Advisory Committee comprising representatives of several aboriginal organisations. The Health Services Research Unit consists of two CRE’s (Centre of Research Excellence) – a CRE in Primary Oral Health and a CRE in Health Services Research. However, ARCPOH is intended to play an important national role, and the University therefore is guided in its management by an Expert Advisory Committee that has the best possible appreciation of the state of population oral health research and major public policy issues that might be informed by that research.
ARCPOH Expert Advisory Committee

Membership

> Vice-Chancellor of the University of Adelaide or nominee (Convener)
  (Prof. Kaye Roberts-Thomson (Interim Dean)/ Prof. Julie Owens)
> Director of the Australian Institute of Health and Welfare or nominee
  (Ms Teresa Dickinson/Dr Adrian Webster)
> Nominee of the Australian Government Department of Health (Mr Peter Woodley/Ms Margaret Noris)
> Nominee of Colgate Oral Care, Colgate-Palmolive Australia
  (Dr Susan Cartwright)
> Nominee of the South Australian Department of Health
  (Dr Ron Somers)
> Nominee of State and Territory Dental Services
  (Dr Geoff Franklin)
> Nominee of the Universities of Melbourne and/or Otago (Prof. Murray Thomson)
> Nominee of the University of Adelaide, Discipline of Public Health
  (Prof. Annette Braunack-Mayer)
> Community representative nominated by the Australian Council of Social Services (ACOSS)
  (Dr Tessa Boyd-Caine/ Ms Rebecca Vassarotti)
> Such other persons having expertise in public health including oral public health as may be thought desirable, including
  in the first instance a nominee of the Australian Dental Association (ADA):
  > Dr Karin Alexander (ADA)
  > Prof. Clive Wright
  > Prof. Anthony Harris
  > Prof. John Lynch
> Director, ARCPOH
  (Prof. Marco Peres)
> Deputy Director, ARCPOH, Director, AIHW DSRU (Dr Liana Luzzi)
> Director, HSRU
  (Assoc. Prof. David Brennan)
> Director, Indigenous Oral Health Unit (IOHU) (Assoc. Prof. Lisa Jamieson)
> ARCPOH Executive Committee members (Assoc. Prof. Karen Peres/ Assoc. Prof. Loc Do, Assoc. Prof. Jason Armfield, Dr Rati Lalloo)

Functions

To advise the University of Adelaide, the Director of ARCPOH and, where appropriate, collaborating organisations on:

> the important research questions in population oral health that could beneficially be addressed by ARCPOH, and the relative priority of those issues
> the formulation and regular updating of an appropriate strategic plan for the research program of ARCPOH
> operational planning for the research program of ARCPOH that encompasses collaboration and cooperation between relevant organisations, and the avenues through which resources can be found to support the program
> the means by which the outcomes of the centre’s research can be disseminated to inform public policy and professional practice
> the development and enhancement of the centre’s postgraduate research training activities, within the research program.
Research program

ARCPOH is pursuing a broad strategy of coordinating the relevant research activities of the contributing components so as to enhance progress in the following main areas.

Distribution and determinants of oral health

Oral diseases and disorders remain widespread and extensive in the population. There is a fundamental requirement for research in documenting and exploring trends in oral diseases and their distribution in the population. Research that seeks to understand the determinants of change over time or variation between subgroups in the population is fundamental to the process of improving oral wellbeing.

Burden and impact of oral disease

Oral disease has traditionally been described in terms of clinical measures; for example, teeth with experience of disease. This research area extends the capacity to measure oral disease experience through measures of oral-health-related quality of life / wellbeing, and how oral disease impacts on daily living; for example, disability-adjusted life years. Such research has become crucial to identifying priority areas in national health agendas.

Research has identified marked variations in oral disease measures; for example, social gradients in oral health-related quality of life. An increased research effort is exploring factors underlying such variation, including individual behaviours and the individual, school/work and community circumstances that ultimately determine oral health.

Effectiveness of population oral health interventions

Previous research on water fluoridation and the prevention of dental caries and dental fluorosis continues, with additional emphasis on effectiveness in adult and older adult age groups. Findings of research on the determinants of oral disease will be tested in demonstration interventions; for example, support for carers of functionally dependent older adults. Research will continue on the effectiveness of office-based distance education of dental care providers in reorienting dental service provision towards preventive services.

Oral health services and labour force research

Access to high-quality dental care is fundamental to oral health-related quality of life and improved oral health. Too little research has been conducted on what works and why in the effective and efficient delivery of dental services. The particular focus in this research is on public dental care program evaluation, private dental insurance and dental provider behaviour. The dental labour force necessary to provide dental services is an area of increasing attention, given concerns over health labour force supply and distribution.

Oral health policy analysis

Research in population oral health has concentrated on documentation of problems and analysis of their distribution and influences. There is great need for an extension of this research into the area of policy analysis, related especially to the provision of public dental care. Such analysis is directed into cost analysis of public dental care programs under a range of assumptions and with differing approaches to the management of demand and patient flows.

These five research areas encompass an extensive range of potential projects. Research agenda setting meetings of the ARCPOH participants (Expert Advisory Committee) are held, together with other consultations, to determine the best means of pursuing the research, and thus arrive at an operational research program (work programs) for the immediate future and provisional plans for the medium to longer term.

Oral health promotion data warehouse and information clearinghouse

In addition to the five research areas, ARCPOH functions as a data warehouse and an information clearinghouse.
Framework for the research and work programs within ARCPOH

Research program ARCPOH

- Distribution and determinants of oral health
  - AIHW DSRU
  - Dental health statistics
  - IOHU

- Burden and impact of oral disease
  - DPERU
  - IOHU

- Effectiveness of population oral health interventions
  - AIHW DSRU

- Oral health services and labour force research
  - Centre of Research Excellence in Primary Oral Health Care (APHCRI)
  - Centre of Research Excellence in Health Services Research (NHMRC)

- Oral health policy analysis

- Oral health promotion data warehouse and information clearinghouse
  - National Oral Health Promotion Clearinghouse
Director’s Report

The environment

The environment in which ARCPOH operated across 2014 was shaped by the following events:

> Following the resignation of Professor Johann De Vries as Dean of the School of Dentistry, Professor Kaye Roberts-Thomson was appointed Interim Dean effective from 18 February to 31 December 2014.

> Professor Roberts-Thomson played an instrumental role in The University of Adelaide being awarded the State Government’s contract to provide its public dental service for the next 30 years. The outcome confirmed that the State Government values the School of Dentistry, one of the two highest ranked schools in Australia, hence reinforcing the school’s position as a national leader in dental education and research.

> Dr Liana Luzzi, Director of the Australian Institute of Health and Welfare’s Dental Statistics and Research Unit (AIHW, DSRU) was appointed ARCPOH’s Deputy Director from January 2014.

> Dr Rati Laloo commenced at ARCPOH in May. Rati has an extensive background in dental public health, including evidence-based dentistry, oral health-related quality of life and health inequalities. He was appointed as Interim Director for the National Oral Health Promotion Clearinghouse and the Dental Practice Education Research Unit.

> Associate Professor Jason Armfield and Dr Rati Laloo joined the ARCPOH Executive Committee, bringing the membership to eight. From 2014 the Executive Committee will comprise of staff who are Level E (Professor), Level D (Associate Professor) and Unit Directors.

> Mrs Lorna Lucas retired from ARCPOH and the University of Adelaide after accepting a Voluntary Separation Package from the Faculty of Health Sciences. Lorna’s last day at ARCPOH was 30 September 2014. Ms Ali White has taken over the role of Publications Coordinator and will also provide support to the ARCPOH Executive Committee and ARCPOH Expert Advisory Committee.

> In late 2013, the University of Adelaide undertook a Research Centre Review. The review of ARCPOH led to the following recommendations:

1. For the long term positioning of ARCPOH, it is advised that an external strategic review be conducted.

2. Increase researcher participation on NHMRC grant review panels.

3. Explore the vision of establishing an overarching ‘virtual’ Population Health Institute.

Highlights

In 2014, there were some notable highlights:

> ARCPOH hosted the 6th International Meeting on Methodological Issues in Oral Health Research from 1–3 April 2014, in Adelaide. Over 80 representatives from 35 organisations and 18 countries worldwide attended and contributed.

> ARCPOH’s Indigenous Oral Health Unit (IOHU) hosted the International Indigenous Oral Health Conference in Adelaide from 27–29 August. Approximately 90 attendees from New Zealand, the United States, Canada, Brazil and Sri Lanka participated. This significant conference was the first Indigenous Oral Health conference to be organised at an international level.

> Positive feedback was received from states and territories as stakeholders in supporting the NHMRC Partnership grant to support the conduct of the next National Survey of Adult Oral Health (NSAOH).

> In October, Professor Peres and key ARCPOH staff were involved in the first meeting to discuss collaboration between ARCPOH and the School of Population Health.

> ARCPOH’s publications productivity and output increased with ARCPOH staff and students contributing to approximately half of the School of Dentistry’s publications.

> Addressing oral health inequalities in Asia and Pacific region, with M Peres as CIA, was prepared as a CRE Proposal to be submitted to NHMRC in 2015.

> Associate Professor Loc Do undertook special studies leave in the United Kingdom from May to August, to exchange experience with scholars from the University of Bristol and University College London in the field of life course epidemiology and oral health inequalities.

> Three higher degree by research students from ARCPOH completed and were awarded their PhD’s: Dr Sree Vidya Krishna Rao, Dr Meghashyam Bhat and Dr Kostas Kapellas.

> Professor Marco Peres was indicated as a member of the Adelaide Family Health Study Steering Committee, a proposed cohort study of 40,000 families and babies, led by Professor Lyle Palmer, Head of the School of Translational Health Science, University of Adelaide. This study presents an excellent opportunity for ARCPOH to undertake collaborative work.

> ARCPOH was involved in three projects under the South Australian Early Childhood Health and Development Project—a collaborative project run by the School of Population Health at the University of Adelaide, with the primary objective of linking administrative data for the cohort of children born in South Australia from 1999 to 2011, to explore the effects of early life conditions and
experiences on child development, health and learning. ARCPOH staff: Dr G Mejia, Associate Professor K Peres, Dr L Do, Dr D Ha and Professor M Peres have been involved in three studies attached to this project:
1. Children exposed to general anaesthesia due to dental reason and school performance later on.
2. Parental socioeconomic status at birth and child’s dental caries at age 5.

> Associate Professor K Peres, Professor M Peres, Dr G Mejia and Dr N Amarasena are involved in the North West Adelaide Health Survey (NWAHS), a cohort of adults. An oral health questionnaire was prepared to be included in the fourth wave of the NWAHS. A project grant to develop oral examinations has been submitted to NHMRC as a project grant led by K Peres.

**Lowlights**

In 2014, there were some noticeable lowlights:

> ARCPOH faced a challenging year with regards to its funding environment. Unsuccessful outcomes from the 2013 NHMRC grant round and significant NHMRC projects ending in 2013 and 2014 impacted on ARCPOH’s ability to retain key staff. As a result, ARCPOH was unable to renew six staff contracts as of 31 November 2014 (1.8 FTE Administration, 1.0 FTE Research Officer, 1.6 FTE Academic/Research).

> In 2013, ARCPOH submitted 5 NHMRC Project Grant Applications and 3 Fellowship applications. Only 1 Project Grant Application was awarded. Associate Professor Lisa Jamieson was awarded an NHMRC Project Grant ‘Periodontal disease and chronic kidney disease among Aboriginal adults; an RCT’ for $996,490. As the research is being undertaken in the Northern Territory, the majority of the funding is being directed to Menzies School of Health Research to directly coordinate activities within the Territory.

> ARCPOH received a reduction in funding from a number of its stakeholders which will impact its ability to support salaries into 2015.

> There were no new consultancies in 2014 and The Wiley-Blackwell Editor Agreement (Professor AJ Spencer) ceased in December 2014.

**New challenges**

> Managing a large research centre requires new structures and reporting arrangements. In 2014, Human Resources were involved with the restructure of reporting lines for a number of staff within ARCPOH. This has resulted in a change of supervisor for several staff who are no longer reporting to the Director of ARCPOH.

> Following on from The University of Adelaide being awarded the State Government’s contract to provide its public dental service for the next 30 years, ARCPOH will move from its premises at 122 Frome Street to be once again located with the School of Dentistry.

**Contractual Research**

> An agreement was drawn up between ARCPOH and the Brunei Ministry of Health to lead their National Oral Health Survey. The expected commencement date of mid-year was pushed out to 2015 due to contractual delays.

**Teaching**

> During the second semester of 2013, ARCPOH and the School of Population Health discussed a strategic alliance to integrate ARCPOH’s proposal to programs currently offered by Population Health. A revision to the MPH program would allow the inclusion of a new specialisation of coursework in population oral health delivered within the Master’s degree. In response to the recent University review of the School of Population Health and its postgraduate programs, the School’s Executive Committee agreed to convene a Working Party to assist in the strategic renewal of the Master of Public Health degree. Gloria Mejia, in representation of ARCPOH, was invited to form part of the Working Party. The group aims to finalise the concept proposal by mid-December 2014 and submit to the Faculty Program Approvals Committee in January 2015 and the University Program Approval and Entry Committee the following April.

> The objectives of the Population Oral Health (POH) specialisation would remain as previously proposed, that is, to provide an understanding of the social determinants of oral health, strategies for improving oral health through preventive actions at a population level, and the improvement of dental services to specific target groups and the population. Under the new proposal, the MPH specialisation in population oral health would be delivered as a blended program and consist of core courses on Public Health (School of Population Health) and Population Oral Health (School of Dentistry). In addition, elective courses would be offered in Public Health and Population Oral Health, as well as including a compulsory research element.

> ARCPOH staff continue to be involved with undergraduate teaching in the Bachelor of Dental Sciences (BDS) and the Bachelor of Oral Health. This teaching covers the range of population health topics, including evidence-based practice, social determinants of health, health promotion and geriatric dentistry. Community Dentistry was taught to both the 4th and 5th year BDS students as part of the transition to the revised BDS curriculum. Enhancements continue to content taught in earlier years as part of the ongoing process of quality improvement in our teaching.
Research Units - Work Program

AIHW Dental Statistics and Research Unit
> The AIHW Dental Statistics and Research Unit (AIHW DSRU) is a collaborating unit of the Australian Institute of Health and Welfare and is located within the Centre.
> It aims to improve the oral health of Australians through the collection, analysis and reporting of dental statistics and through research on dental health status, dental practices and use of dental services, and the dental labour force.
> The National Dental Telephone Interview Survey commenced at the end of June 2013 and the data collection phase for the survey was completed on 28 March 2014. The total number of completed adult interviews (aged 18+ years) was 6,348 and total number of completed child interviews (aged 5-17 years) was 1,615.
> The latest ‘Key facts and figures’ report produced for the Australian Government Department of Health was prepared, ‘Oral health and dental care in Australia: Key facts and figures 2014’.
> The Data Watch series in the Australian Dental Journal continued with the following three published papers:

Dental Practice and Education Research Unit
> The Dental Practice Education Research Unit (DPERU) is a joint venture between The University of Adelaide and Colgate Oral Care and it was established in November 1991. Our headquarters are at the Australian Research Centre for Population Oral Health at The University of Adelaide, Australia.
> DPERU’s objective is to identify and meet the information needs of dentists, dental therapists and dental hygienists and promote the provision of preventive services.
> The following special topics were released by DPERU in 2014:
  1. Oral health of older adults – professional brochure and carer pamphlet
  2. Fluoride guidelines update.
In 2010, Continuing Professional Development (CPD) became compulsory for dental practitioners in Australia. The Dental Board of Australia, which was established in 2010, requires 60 hours of CPD for each practitioner over a three-year period. As DPERU undertakes to provide educational material on topics of interest and importance to dentistry, it seemed a logical step to use these for CPD.
A series of on-line quizzes, based on the DPERU practice information sheets, has been developed for CPD credit points. Quizzes are added to the site as practitioner information sheets on new topics are developed, the latest being Heart diseases.

Indigenous Oral Health Unit
Launched in December 2011, the Indigenous Oral Health Unit (IOHU) focuses specifically on the oral health of Aboriginal and Torres Strait Islander people, continuing and expanding on the work already carried out by ARCPOH in this area.
IOHU is concerned with Indigenous oral health, access to dental care, the labour force and provision of dental care to this disadvantaged population. Through research, we seek to achieve improved oral health and better dental care for all Indigenous Australians.
In 2014 the Indigenous Oral Health Unit was involved in:
  1. Successfully hosting the first International Indigenous Oral Health Conference in Adelaide from 27–29 August 2014. This was the first conference held specifically for Indigenous Oral Health at an international level.
  2. Community consultation and providing research feedback to the Aboriginal community in Port Augusta.
  3. Preparing three NHMRC project grant applications.
  4. Preparing presentations for the International Association of Dental Research meeting in Boston, United States and the annual meeting of the International Collaborative Indigenous Health Research Project in Toronto.
National Oral Health Promotion Clearinghouse

The National Oral Health Promotion Clearinghouse (NOHPC) is a web-based information resource that provides up to date, accurate and comprehensive, evidence based information about oral health promotion research, reviews, practice and resources in Australia and overseas. The Clearinghouse works to support researchers and practitioners in oral health promotion and is also a resource for the general public seeking information on oral health. In 2014:

- Dr Rati Lalloo became Acting Director of the Clearinghouse with Professor Kaye Roberts-Thomson in the position of Interim Dean of the School of Dentistry.
- Mr Emmanuel Gnanamanickam has undertaken the role of moderator of the Clearinghouse since 2011.
- Continued funding was requested and received from states and territories in 2014.
- The Research study titled, ‘Oral Health Information Seeking Behaviour’ was conducted as part of the NDTIS follow-up questionnaire.
- The Clearinghouse website was being prepared for migration to the new University template.

Health Services Research Unit

In 2014 the main activities of the Health Services Research Unit (HSRU) centred around the work program of two CREs (Centre of Research Excellence) in the unit: the CRE in Primary Oral Health Care funded by the Australian Primary Health Care Research Institute, as part of the Commonwealth Department of Health and Ageing's Primary Health Care Research, Evaluation and Development Strategy, and the CRE in Health Services Research funded by NHMRC to generate new knowledge to improve oral health outcomes and to inform oral health policy in the area of health services research. Projects being undertaken at ARCPOH for the CRE in Primary Oral Health Care include research into referral for priority care for Indigenous adults in the public sector. This project aims to understand why some Aboriginal adults who are referred for public dental care do not take up, or do not complete a course of dental care by using semi-structured face to face interviews for those people who access care and complete the course, those that access care but do not complete and those who do not access care following a referral. Following planning in conjunction with the SA Dental Service, and ethics clearance from the Aboriginal Health Research Ethics Committee, data collection of interviews has now been completed. A draft report of findings has been provided to the SA Dental Service. The findings will enable recommendations to the South Australian Dental Service on enablers and barriers to care, which could be incorporated into the design of the program and inform similar programs elsewhere.

Other projects being undertaken at ARCPOH include research into medical GP’s assessment of need for dental care where recruitment of practices has commenced and baseline data collection is underway, and a project that aims to test an intervention model for carers of adults with physical and intellectual disabilities which has collected data to evaluate knowledge and reported practices of carers in relation to oral hygiene and ability to use dental services using a questionnaire and an oral hygiene assessment of adults with a disability under their care. Projects are also being undertaken for the CRE in Health Services Research in the research themes of expenditure and financing of dental care, dental practice performance, and dental services and health outcomes. In the theme of expenditure and financing of dental care a time trend analysis of financial barriers to dental care used data from the National Dental Telephone Interview Survey (NDTIS) from 1994, 1999, 2004 and 2010 to examine the percentage of people reporting avoiding or delaying visiting a dentist because of cost modelled as synthetic cohorts using a nested models approach to examine age, period and cohort effects. Under the research theme of dental practice performance, a time series analysis of dentist practice activity utilised data from the Longitudinal Study of Dentists’ Practice Activity from 1983, 1988, 1993, 1998, 2003 and 2009 to examine the number of patient visits supplied by dentists per year. In addition, a number of data collections are being pursued to inform the research program. These include a primary data collection of information relating to the work effort required to deliver dental services. This includes data on responsibility loading and the components of responsibility underlying these loadings that will enable calculation of relative value units for dental services. There is also a primary data collection of practice activity information from a sample of oral health practitioners drawn from the membership of the respective dental therapist and dental hygienist associations. This project will provide information on this growing component of the dental workforce, and enable analysis of the impact of dual-qualified oral health practitioners on dental practice. A survey of dentists has also been developed to collect data on practice activity as well as other job related aspects such as job satisfaction and fatigue.

The research theme of dental services and health outcomes has been investigated through a time trend analysis of access to dental care from the National Dental Telephone Interview Survey (NDTIS) from 1994, 1999, 2004 and 2010 to examine the percentage of people reporting that they usually visit a dentist because of problems.
## Activity Summary

### Distribution and Determinants of Oral Health

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult Dental Programs Survey</td>
<td></td>
</tr>
<tr>
<td>Associations between periodontal disease and cardiovascular surrogate endpoints in an adult Indigenous population (NHMRC)</td>
<td></td>
</tr>
<tr>
<td>Avoidance and non-avoidance of the dentist</td>
<td></td>
</tr>
<tr>
<td>Caries Initiation Study</td>
<td></td>
</tr>
<tr>
<td>Child Dental Health Survey (CDHS)</td>
<td></td>
</tr>
<tr>
<td>Child Fluoride Study Mark II (NHMRC)</td>
<td></td>
</tr>
<tr>
<td>Dental anxiety and past experiences: a qualitative study with dentally fearful Australian adults (ADRF)</td>
<td></td>
</tr>
<tr>
<td>Dental fear in patients with Juvenile Idiopathic Arthritis</td>
<td></td>
</tr>
<tr>
<td>Development of a dental anxiety scale for adults</td>
<td></td>
</tr>
<tr>
<td>Development of a modular index of children’s dental anxiety</td>
<td></td>
</tr>
<tr>
<td>Exploring factors associated with dental behaviours of carers: oral health literacy and psychosocial measures</td>
<td></td>
</tr>
<tr>
<td>Impacts of dental beliefs and behaviours on oral health related quality of life among middle-aged and older Chinese immigrants in Australia (ADRF)</td>
<td></td>
</tr>
<tr>
<td>Indigenous Oral Health Unit (IOHU)</td>
<td></td>
</tr>
<tr>
<td>Intergenerational change in oral health (NHMRC)</td>
<td></td>
</tr>
<tr>
<td>National Child Oral Health Survey (NCOHS)</td>
<td></td>
</tr>
<tr>
<td>National Dental Anxiety and Fear Survey (ADRF)</td>
<td></td>
</tr>
<tr>
<td>Natural history of fluorosis (NHMRC)</td>
<td></td>
</tr>
<tr>
<td>Queensland Child Oral Health Survey (QCOHS)</td>
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<tr>
<td>Risk indicators for periodontal disease in an urban Aboriginal population (NHMRC)</td>
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<tr>
<td>Screening and Management of Dental Anxiety Survey (ADRF)</td>
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<tr>
<td>Social determinants and oral health of Australian Indigenous children</td>
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</tr>
<tr>
<td>Social gradients in child oral health status and access to services</td>
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<tr>
<td>Study of Mother and Infant Life Events Affecting Oral Health (NHMRC)</td>
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### Effectiveness of Population Oral Health Interventions

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>An oral health literacy intervention among rural Indigenous adults (NHMRC)</td>
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</tr>
<tr>
<td>Early childhood oral health promotion project (WA)</td>
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<tr>
<td>Health Promotion and Early Childhood Caries (ADRF; Channel 7 Children’s Research Foundation), NHMRC: Centre of Clinical Research Excellence</td>
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<tr>
<td>Evidence check commissioned by the Centre for Oral Health Strategy NSW</td>
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<tr>
<td>Making Things Easier</td>
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<tr>
<td>Prevention and control of caries in older adults in residential aged care (NHMRC)</td>
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<tr>
<td>Randomised control trial of effectiveness of silver fluoride in managing deciduous dental caries in remote Aboriginal communities (NHMRC)</td>
<td></td>
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<tr>
<td>Reducing disease burden and health inequalities arising from chronic dental disease among Indigenous children: an early childhood caries intervention (NHMRC Project Grant, in collaboration with New Zealand’s Health Research Council and Canada’s Institute of Health Research)</td>
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<tr>
<td>The Dental Practice Education Research Unit (DPERU)</td>
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### Oral Health Services and Labour Force Research

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>Centre of Research Excellence in Health Services Research (NHMRC)</td>
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</tr>
<tr>
<td>Centre of Research Excellence in Primary Oral Health Care (APHCR)</td>
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</tr>
<tr>
<td>Dental Expenditure Panel Survey (DEPS)</td>
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<tr>
<td>Dental Labour Force Planning in South Australia</td>
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<tr>
<td>Dentists’ characteristics, motivations and factors influencing workplace choice</td>
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<tr>
<td>Evaluating consensus between oral assessors for BOH applicants to the University of Adelaide</td>
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</tr>
<tr>
<td>Evaluating profile changes in 1st year BDS/BOH students, Adelaide Dental School, over 10-year period</td>
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</tr>
<tr>
<td>Financial Impact of Dental Services (FIDS)</td>
<td></td>
</tr>
<tr>
<td>Health information seeking behaviour study</td>
<td></td>
</tr>
<tr>
<td>Impact of insurance on use of dental services and oral health (NHMRC)</td>
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</tr>
<tr>
<td>Mobility of International Dental Graduates (IDGs) in Australia (ADRF)</td>
<td></td>
</tr>
<tr>
<td>National Dental Telephone Interview (NDTIS) and associated activities</td>
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</tr>
<tr>
<td>National Survey of Adult Oral Health (NSAOH)</td>
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<tr>
<td>Preventative maintenance program in Community Dental Services (CDS) – adult recall (SADS contract)</td>
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<tr>
<td>Study of private subsidisation of dental care in Australia (SOPS) (ADRF)</td>
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<tr>
<td>The impact of declining tooth loss on oral health status and dental care utilisation (NHMRC)</td>
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<tr>
<td>The Longitudinal Study of Dentists’ Practice Activity</td>
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</table>

### Centre of Clinical Research Excellence (CCRE)

<table>
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<tr>
<td>CCRE for Oral Health</td>
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### Oral Health Policy Analysis

<table>
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<th>Reference</th>
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<tr>
<td>Oral health messages in the Australian mass media: a content analysis (ADRF)</td>
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<tr>
<td>Policy analysis</td>
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</tr>
<tr>
<td>The social construction of oral health in Australia</td>
<td></td>
</tr>
<tr>
<td>Willingness-to-pay for public dental services</td>
<td></td>
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</table>

### Oral Health Promotion Data Warehouse and Information Clearinghouse

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>National Oral Health Promotion Clearinghouse (NOHPC)</td>
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</tr>
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</table>
## Staff list

<table>
<thead>
<tr>
<th>Professor</th>
<th>Professor Marco Peres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emeritus Professor</td>
<td>Emeritus Professor A John Spencer</td>
</tr>
</tbody>
</table>
| Associate Professors / Principal Research Fellows | Associate Professor Jason Armfield  
Associate Professor David S Brennan  
Associate Professor Loc Do |
| Associate Professor Lisa M Jamieson  
Associate Professor Karen Peres |
| Senior Research Fellows  | Dr Len Crocombe  
Dr Rati Lallo  
Dr Liana Luzzi |
| Research Fellows         | Dr Najith Amarasena  
Dr Wendy Cheung  
Dr Diep Ha  
Dr Kelly Jones  
Mr Kostas Kapellas  
Dr Kamila Plutzer  
Dr Archana Pradhan |
| Senior Lecturers         | Dr Jane Harford  
Dr Gloria Mejia |
| Lecturers                | Dr Haiping Tan |
| Research Associates      | Mr Madhan Balasubramanian  
Mr Sergio Chrisopoulos  
Ms Zahra Ghorbani |
| Ms Xiangqun Ju  
Ms Saima Islam  
Dr Dominic Keuskamp |
| Academic Staff from the School of Dentistry | Ms Sue Gardner  
Mr Clinton Kempster |
| Ms Jenny Miller  
Dr Eleanor Parker |
| Research Officers        | Ms Jacqueline Aldis  
Ms Katie Beckwith  
Mr Meghashyam Bhat  
Ms Reshka Chand  
Ms Anne Ellershaw |
| Mr Emmanuel Gnanamanickam  
Ms Adiya Gupta  
Ms Joanne Hedges  
Ms Carmen Koster |
| Administrative Staff     | Ms Annalisa Agresta  
Ms Nikki Dodds  
Mrs Beverly Ellis  
Mr David Harley  
Ms Sarah Harman |
| Ms Lorna Lucas  
Mrs Silvana Marveggio  
Mrs Sharon Miller  
Ms Thanh Nguyen  
Ms Gemma Pilkington |
| Ms Teresa Phung  
Ms Gina Stephens  
Ms Rose Thomas  
Ms Ali White |

### Staffing Summary

#### New appointments:
- J Aldis (Research Officer)
- M Balasubramanian (Research Associate)
- A Gupta (Research Officer)
- R Lalloo (Senior Research Fellow)
- G Pilkington (Data Entry)

#### Resignations and ceased contracts:
- Ms J Merrick (April 2014)
- Ms R Chand (April 2014)
- Ms Z Ghorbani (April 2014)
- Mrs L Lucas (Sept 2014)
- Ms J Tepsic (Oct 2014)
- Ms A Agresta (Nov 2014)
- Ms W Cheung (Nov 2014)
- Mr D Harley (Nov 2014)
- Ms K Plutzer (Nov 2014)
- Ms A Pradhan (Nov 2014)
- Ms C Wong (Nov 2014)
- Ms K Jones (Dec 2014)

#### Return from maternity leave:
- Associate Professor L Jamieson (March 2014)
- Associate Professor E Parker (August 2014)

#### Promotions:
- Dr L Luzzi (Level B to Level C), commencing 2014
- Dr D Ha (Level A to Level B, commencing 2014
- Dr K Jones (Level A to Level B), commencing 2014
- Dr J Armfield (Level C to Level D), commencing 2014
- Professor D Brennan (Level D to Level E), commencing 2015
Achievements

Awards

- Mr Kamal Hanna, Mr Emmanuel Gnanamanickam and Ms Helena Schuch each received a Colgate Travel Grant for their abstract submission to the ANZ IADR meeting in Brisbane.

- Mr Madhan Balasubramanian was awarded the best presentation (PhD category) in the Dental School Research Day, 11 July, and received a $500 cash prize. His presentation was titled ‘Characteristics and practice profiles of migrant dentist groups in Australia: implications for dental workforce policy and planning.’

- Ms Xiangqun Ju received the J. Morita Research Award in Preventive and Community Dentistry for her paper ‘Water fluoridation and the association using the micronutrient fluoride.

- Associate Professor Jason Armfield was awarded the IADR ANZ Division Award in Preventive and Community Dentistry.

- Associate Professor Jason Armfield was awarded the 2013 Australian Dental Industry Association (ADIA) Research Award supported by the Australian Dental Research Foundation (ADRF). ADIA’s grant supports research into dental anxiety and fear in children.

- Associate Professor Jason Armfield was awarded the IADR ANZ Division Investigator Award in Preventive and Community Dentistry for his paper ‘Water fluoridation and the association of sugar-sweetened beverage consumption and dental caries in Australian children.’

- The Australian Dental Research Foundation (ADRF) awarded Dr Gloria Mejia and Dr Wendy Cheung the International College of Dentists (ICD), Australasian Section, Community Oral Health Award for their project ‘Maternal and perinatal factors associated with early childhood caries’.

- In 2014, Dr Haiping Tan was awarded International Association for Dental Research (IADR) Australian and New Zealand Division Award in Preventive and Community Dentistry 2013.

- Dr Jane Harford was awarded a Barbara Kidman Women’s Fellowship commencing in 2015.

External Committee Appointments

- Associate Professor Lisa Jamieson was invited to participate in an NHMRC Project Grant Review Panel for 2014.

- Associate Professor David Brennan was appointed to the NHMRC Career Development Fellowship peer review population health panel, from March to December 2014.

- Dr Haiping Tan became a member of the Expert Reference Group for the aged care node of the Joanna Briggs Institute (JBI) CoNNECT – online access to JBI resources.

- Dr Emmanuel Gnanamanickam was elected Co-Chair of the National Council of Future Health Leaders (FHL) Australia, following on from being the international representative on the Council since 2012.

- In October 2013, The NRV Fluoride Expert Working Group was established to test the methodological framework using the micronutrient fluoride. Professor Marco Peres and Emeritus Professor John Spencer became members and Associate Professor Loc Do an observing member until the end of 2015.

Visiting Presenters

- Professor Annette Braunack-Mayer, Head, School of Population Health, University of Adelaide: Invited Seminar Presenter, ‘Ethics in Public Health’ and ‘Why we all need a nanny’, 21 March 2014.

- Professor John Preisser, Professor of Biostatistics, School of Global Public Health, University of North Carolina at Chapel Hill, USA, Seminar Presenter, ‘CRT (cluster randomized trial) design and analysis’, 28 March 2014 and Invited Speaker, Dental Biostatistics Conference, April 2014.

- Professor Leopoldo Ferreira Antunes, Seminar Presenter, ‘Challenges and opportunities for epidemiologic research on oral cancer’, 31 March 2014.

- Professor Murray Thomson, Professor of Dental Epidemiology and Public Health, Department of Oral Sciences, University of Otago, New Zealand: Invited Speaker, Dental Biostatistics Conference, April 2014.

- Professor John Lynch, Professor of Public Health, School of Population Health, University of Adelaide: Invited Speaker, Dental Biostatistics Conference, April 2014.

- Professor Emmanuel Lesaffre, Professor in Biostatistics, Department of Biostatistics, Erasmus MC, The Netherlands; University of Leuven, Belgium: Invited Speaker, Dental Biostatistics Conference, April 2014 and Seminar Presenter, ‘How to extract more (and better quality) information from your study: ‘Simple questions’ is not the same as ‘simple analyses’.

- Professor Dominique Declerck, President, Department of Oral Health Sciences, University of Leuven, Belgium: Invited Speaker, Dental Biostatistics Conference, April 2014 and Seminar Presenter, ‘How to extract more (and better quality) information from your study: ‘Simple questions’ is not the same as ‘simple analyses’.

- Professor Stuart Gansky, Professor of Primary Care Dentistry, School of Dentistry, University of California, San Francisco, USA: Invited Speaker, Dental Biostatistics Conference, April 2014 and Seminar Presenter, Oral health disparities research and precision oral health research.


- Professor Lyle Palmer, Head of the School of Translational Health Science, Guest Seminar Speaker, ‘21st Century Epidemiology: Creating platforms for revolutionary science and transformational biology’, August 2014.

- Professor Kamilla Venner, Associate Professor at the University of New Mexico, Invited Keynote Speaker and Seminar Presenter, International Indigenous Oral Health Conference, ‘Behavioural Interventions used among Indigenous populations in an oral health context’.

- Professor Terry Batliner, Associate Director for the Center for Native Oral Health Research at the University of Colorado, Anschutz Medical Campus. Invited Keynote Speaker and Seminar Presenter for the International Indigenous Oral Health Conference.
ARCPOH received its funding from a range of stakeholders in 2014.

ARCPOH received $291,000 for the period 31 July 2013 to 31 January 2014 from the Department of Health through AIHW as part of an extension to the previous agreement. A new MoU from 2014 to 2016 was finalised and the work plan and schedule agreed to for 1 February to 30 June was $208,333. The new schedule for the period 1 July 2014 to 30 June 2015 is being finalised, and will be for $464,000. This is a reduction of $36,000 from the previous year.

The South Australian Dental Service (SADS) agreement was finalised for the period 2 June 2014 to 1 June 2016 resulting in total funding of $288,000. This will be paid in annual instalments of $144,000. The SADS annual Geriatric component of $49,000 will not be supported from 2015 onwards.

The Dental Practice Education Research Unit (DPERU) received $158,500 and the Indigenous Oral Health Unit (IOHU) received $15,000 from Colgate Oral Care Australia and New Zealand. Colgate Oral Care also donated $10,000 to the International Indigenous Oral Health Conference which was organised by the IOHU.

Colgate Oral Care donated $13,000 towards the Methodological Issues in Oral Health Research Meeting’s keynote speaker travel expenses and the ADA donated $2,300 for Conference Awards.

ARCPOH has finalised negotiations with the Brunei Ministry of Health to lead their National Oral Health Survey. The total value of this agreement to ARCPOH is $136,237. It is anticipated that ARCPOH will receive $40,050 by 30 June 2015 in relation to this agreement.

ARCPOH was awarded a Contract by the Sax Institute to undertake a review and report on the effectiveness of clinic-based, family centred preventive dental health education programs for young children (total value of $22,000, prior to 20% University levy).

In 2014, the Oral Epidemiology Unit received $85,500 from SA Health via AIHW, $70,000 from the Deputy Vice-Chancellor (Research) and $136,675 from the School of Dentistry (0.66 of professorial value). The agreement to continue funding this Unit into 2016 and beyond is being negotiated. Outcomes from the Federal Government’s Oral Health Promotion Initiative and financial support from this initiative is still uncertain. At the recent National Oral Health Promotion Steering Group annual meeting held in February 2013 in Darwin, Health Promotion Representatives agreed to contribute $50,000 to support the National Oral Health Promotion Clearinghouse in 2014. This year ARCPOH received $74,380 which included both 2013 and 2014 support.

The School of Dentistry and Faculty of Health Sciences supported 4.2 FTE positions, which totals an estimated $741,666 for 2014 (includes oncosts for M Peres (1.0 FTE), S Marveggio (0.8 FTE), K Peres (0.5 FTE), H Tan (0.5 FTE), D Brennan (1.0 FTE) and J Harford (0.4 FTE). The School has recently also taken on the responsibility of the Faculty’s contribution of Jo Hedges salary via the Indigenous Employment Strategy.

The NHMRC Centre of Research Excellence will receive $20k from the DVCR and $80k from the Faculty of Health Sciences.

In 2014, due to the University funding environment, ARCPOH experienced a shortfall of $200,000 across 2013 and 2014, which impacted on ARCPOH’s ability to support salaries into 2015.

An $800k reduction of revenue has impacted ARCPOH’s ability to renew six staff contracts. Some staff fractions have been reduced in 2015 in order to meet budget shortfalls. This reduction in revenue is due to ending NHMRC projects, reduced funding and no new major contracts or consultancies.

In 2014, there was one new Category 1 Competitive Research Grant awarded via the University of Sydney. ARCPOH has undertaken strategies to increase funding success for 2015 by strengthening both their review process and research teams. ARCPOH has continued to do well with ADRF awards, having been awarded four grants totalling $33,500 in 2014.

Associate Professor Lisa Jamieson was awarded an NHMRC Project Grant ‘Periodontal disease and chronic kidney disease among Aboriginal adults: an RCT’ for $996,490. As the research will be undertaken in the Northern Territory, the majority of the funding will be going to Menzies School of Health Research to directly coordinate activities within the Territory.

Under the University’s Indigenous Employment Strategy, the Indigenous Oral Health Unit (IOHU) will receive approximately $93,000 salary support for an HEO5/6 position.

In 2014, University Higher Research Degree Scholarship contributions towards seven student stipends totalled approximately $105,000. A further three full student stipends were funded from ARCPOH research grants.
## 2014 income summary

<table>
<thead>
<tr>
<th>Group</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCPOH</td>
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<tr>
<td>AIHW</td>
<td>$464,000</td>
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<tr>
<td>SADS agreement</td>
<td>$144,000</td>
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<tr>
<td>SADS Geriatric</td>
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<tr>
<td>Oral Epidemiology Unit</td>
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<td>Colgate Oral Care</td>
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<td>DPERU</td>
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<td>IOHU</td>
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<td>NOHPC</td>
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<td>Competitive Research Grants</td>
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<tr>
<td>Category 1 Grants</td>
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<td>Category 1 Fellowships</td>
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<td>Category 2/3 Other</td>
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<td>Category 2 &amp; 3 Contracts</td>
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<td>School of Dentistry</td>
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## Financial status

**Project Activity 1 January 2014 to 31 December 2014 ($)**

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<thead>
<tr>
<th>Category</th>
<th>Opening balance</th>
<th>Actual income</th>
<th>Salary and related expenses</th>
<th>Other expenses</th>
<th>Balance YTD excluding O/B</th>
<th>Closing balance</th>
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<tr>
<td>AIHW Dental Statistics and Research Unit (DSRU)</td>
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<td>243,065</td>
<td>370,542</td>
<td>20,608</td>
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<td>SADS Contract</td>
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<td>Colgate, DPERU</td>
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<td>168,259</td>
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<td>Competitive Research Fellowships</td>
<td>38,364</td>
<td>541,331</td>
<td>520,758</td>
<td>25,335</td>
<td>-4,762</td>
<td>33,602</td>
</tr>
<tr>
<td>Contracts and consultancies</td>
<td>167,256</td>
<td>136,987</td>
<td>93,274</td>
<td>71,115</td>
<td>-27,402</td>
<td>139,854</td>
</tr>
<tr>
<td>RTS</td>
<td>9,000</td>
<td>15,790</td>
<td>268</td>
<td>3,877</td>
<td>11,805</td>
<td>20,605</td>
</tr>
<tr>
<td>Other</td>
<td>-88,423</td>
<td>469,334</td>
<td>248,052</td>
<td>83,418</td>
<td>137,865</td>
<td>49,442</td>
</tr>
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</table>

*Source data: Project Position Summary Report, University of Adelaide*
## Support

### External Support through Agreements 2014

<table>
<thead>
<tr>
<th>Stakeholder</th>
<th>Agreement</th>
<th>Funding</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Agreement period</td>
</tr>
<tr>
<td>Brunei Government</td>
<td>Brunei Oral Health Survey</td>
<td>15 April 2015 to 30 June 2017</td>
</tr>
<tr>
<td>Australian Institute of Health and Welfare (AIHW)</td>
<td>AIHW Dental Statistics and Research Unit</td>
<td>MOU 2014–2016 Draft schedule yet to be executed 1 July 2014 to 30 June 2015</td>
</tr>
<tr>
<td>SA Department of Human Services</td>
<td>Research Unit in Oral Epidemiology (Extension to original agreement)</td>
<td>1 Jan 2015 to 30 June 2015</td>
</tr>
<tr>
<td>Colgate Oral Care</td>
<td>Dental Practice Education Research Unit</td>
<td>Rollover of agreement 2013/14</td>
</tr>
<tr>
<td>South Australian Dental Service</td>
<td>Research Agreement</td>
<td>1 Nov 2014 to 30 Oct 2016</td>
</tr>
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### Donations

<table>
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<tr>
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<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Colgate Oral Care</td>
<td>Support for Indigenous Oral Health Unit (IOHU)</td>
<td>2014</td>
<td>$10,000</td>
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<td>Colgate Oral Care</td>
<td>2014 International Indigenous Oral Health Conference</td>
<td>2014</td>
<td>$10,000</td>
</tr>
<tr>
<td>Colgate Oral Care</td>
<td>The 4th Meeting of Methodological Issues in Oral Health Research</td>
<td>2014</td>
<td>$13,000</td>
</tr>
<tr>
<td>Australian Dental Association</td>
<td>The 4th Meeting of Methodological Issues in Oral Health Research</td>
<td>2014</td>
<td>$2,300</td>
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### Consulting

<table>
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<tr>
<th>Stakeholder</th>
<th>Agreement</th>
<th>Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Agreement period</td>
</tr>
</tbody>
</table>
## Research Grant Status

### Competitive Grants – continuing

<table>
<thead>
<tr>
<th>Grant</th>
<th>Grantees</th>
<th>Topic</th>
<th>Funding</th>
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<tbody>
<tr>
<td>ADRF Award</td>
<td>J Armfield</td>
<td>Dental anxiety and past experiences: a qualitative study with dentally fearful Australian adults (2014)</td>
<td>2014: $3,659</td>
</tr>
<tr>
<td>ADRF Grant</td>
<td>G Mejia</td>
<td>Maternal and perinatal factors associated with early childhood caries (2014)</td>
<td>2014: $12,227</td>
</tr>
</tbody>
</table>
Fellowships

<table>
<thead>
<tr>
<th>Grant*</th>
<th>Grantees</th>
<th>Topic</th>
<th>Time Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHMRC Career Development Fellowship</td>
<td>LG Do</td>
<td>Understanding influences on child oral health</td>
<td>2012–2015: $97,769 pa</td>
</tr>
</tbody>
</table>

Student Summary

Postgraduate Students

<table>
<thead>
<tr>
<th>Student</th>
<th>Degree</th>
<th>Topic</th>
<th>Time Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mary Apps</td>
<td>PhD</td>
<td>Social determinants of Indigenous child oral health</td>
<td>2013–2021</td>
</tr>
<tr>
<td>Madhan Balasubramanian</td>
<td>PhD</td>
<td>Migration of international dental graduates</td>
<td>2010–2014 Completed</td>
</tr>
<tr>
<td>Katie Beckwith</td>
<td>PhD</td>
<td>The effects of school environment and societal functionality on child oral health practices and oral health outcomes</td>
<td>2012–Completed</td>
</tr>
<tr>
<td>Meghashyam Bhat</td>
<td>PhD</td>
<td>Indicators of periodontal disease in a disadvantaged Indian population</td>
<td>2010–2014 Completed</td>
</tr>
<tr>
<td>Sue Gardner</td>
<td>PhD</td>
<td>Characteristics of dental providers working with underserved populations</td>
<td>2011–2014</td>
</tr>
<tr>
<td>Emmanuel Gnanamanickam</td>
<td>PhD</td>
<td>Cost-effectiveness and cost-utility of dental health insurance</td>
<td>2012–2016</td>
</tr>
<tr>
<td>Dandara Haag</td>
<td>PhD</td>
<td>Dimensions of Oral Health Related to Overall Quality of Life in Adults: A Population Based Longitudinal Study in Southern Brazil</td>
<td>2014–2018</td>
</tr>
<tr>
<td>Ninuk Hariyani</td>
<td>PhD</td>
<td>Root Caries Over Generations</td>
<td>2014–2017</td>
</tr>
<tr>
<td>Kamal Hanna</td>
<td>PhD</td>
<td>The impact of patient-centered dental open educational resources (DOER) on enhancing a shared clinical decision making and effective health care outcomes</td>
<td>2013–2017</td>
</tr>
<tr>
<td>Saima Islam</td>
<td>PhD</td>
<td>Evaluating the long term impact of oral health screening linked to priority dental care among community dwelling older people: A randomised 2 year intervention study</td>
<td>2013–2017</td>
</tr>
<tr>
<td>Xiangqun Ju</td>
<td>PhD</td>
<td>Longitudinal study of the relationship between periodontal disease and tooth loss in elderly people in South Australia</td>
<td>2011–2015</td>
</tr>
<tr>
<td>Jenny Miller</td>
<td>PhD</td>
<td>Social gradients in child oral health</td>
<td>2006–2014 Leave of absence</td>
</tr>
<tr>
<td>Eleanor Parker</td>
<td>PhD</td>
<td>Indigenous oral health literacy (leave of absence)</td>
<td>2009–2019</td>
</tr>
<tr>
<td>Helena Schuch</td>
<td>PhD</td>
<td>Social and biological risk factors for periodontal disease in adulthood – a life course approach</td>
<td>2014–2018</td>
</tr>
<tr>
<td>Ankur Singh</td>
<td>PhD</td>
<td>Theoretical and empirical explanations for the relationship between social inequalities and population oral health outcomes</td>
<td>2014–2018</td>
</tr>
<tr>
<td>Dana Teusner</td>
<td>PhD</td>
<td>Dental insurance and use of services</td>
<td>2008–2014 Expired</td>
</tr>
<tr>
<td>Eugene Twigge</td>
<td>DClinDent</td>
<td>Smile aesthetics and perceptions of the Australian general population</td>
<td>2013–2016</td>
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## Honours Students

<table>
<thead>
<tr>
<th>Student</th>
<th>Topic</th>
<th>Status</th>
<th>Time Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katrina Plastow</td>
<td>Diet and dental caries</td>
<td>Part-time</td>
<td>2007–2011</td>
</tr>
<tr>
<td>Reshika Chand</td>
<td>Frames of reference used by Indigenous Australians when rating oral health and the associations between self-rated oral and general health</td>
<td>Part-time</td>
<td>2013–2014</td>
</tr>
<tr>
<td>Keng Yeoh</td>
<td>Prevalence of temporal mandibular joint disorder in the Special Needs Unit at Adelaide Dental Hospital</td>
<td>Part-time</td>
<td>2013–2014</td>
</tr>
</tbody>
</table>

## University of Adelaide Scholarships

<table>
<thead>
<tr>
<th>Student</th>
<th>Scholarship</th>
<th>Time Period</th>
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</thead>
<tbody>
<tr>
<td>Madhan Balasubramanian</td>
<td>Supplementary ARCPOH Grant Funded</td>
<td>2014 (Jan–June)</td>
</tr>
<tr>
<td>Katie Beckwith</td>
<td>ARCPOH Grant Funded</td>
<td>2012–May 2015</td>
</tr>
<tr>
<td>Meghashyam Bhat</td>
<td>UoA Scholarship International</td>
<td>2010–March 2014</td>
</tr>
<tr>
<td>Emmanuel Gnanamanickam</td>
<td>ARCPOH Grant Funded</td>
<td>2012–June 2015</td>
</tr>
<tr>
<td>Dandara Haag</td>
<td>Brazilian Government (CAPES) Scholarship</td>
<td>2014–April 2018</td>
</tr>
<tr>
<td>Ninuk Hariyani</td>
<td>Indonesian Government Scholarship</td>
<td>2014–November 2017</td>
</tr>
<tr>
<td>Sofia Christofis</td>
<td>Adelaide Postgraduate Award</td>
<td>2013–April 2015</td>
</tr>
<tr>
<td>Saima Islam</td>
<td>ARCPOH Grant Funded (CRE Primary Health Care)</td>
<td>2013–October 2016</td>
</tr>
<tr>
<td>Sree Vidy Krishna Rao</td>
<td>Adelaide Postgraduate Award</td>
<td>2011–June 2014</td>
</tr>
<tr>
<td>Ankur Singh</td>
<td>Australian Postgraduate Award – International</td>
<td>2014–October 2017</td>
</tr>
<tr>
<td>Helena Schuch</td>
<td>Brazilian Government (CAPES) Scholarship</td>
<td>2014–April 2018</td>
</tr>
</tbody>
</table>
Performance Summary

The metrics on performance of ARCPOH are presented in the ‘ARCPOH at a glance’. These are summarised below as of November 2014:

<table>
<thead>
<tr>
<th>FTE Staff</th>
<th>Funding</th>
<th>FTE</th>
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</thead>
<tbody>
<tr>
<td><strong>Academic</strong></td>
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</tr>
<tr>
<td>Internal</td>
<td>2.9</td>
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</tr>
<tr>
<td>External</td>
<td>17.1</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td>20.0</td>
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<tr>
<td><strong>Professional Research</strong></td>
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<tr>
<td>Internal</td>
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<td></td>
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<tr>
<td>External</td>
<td>6.1</td>
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<tr>
<td><strong>Total</strong></td>
<td>7.1</td>
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<tr>
<td><strong>Professional Administration</strong></td>
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<tr>
<td>Internal</td>
<td>0.8</td>
<td></td>
</tr>
<tr>
<td>External</td>
<td>8.5</td>
<td></td>
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<tr>
<td><strong>Total</strong></td>
<td>9.3</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>36.4</td>
<td></td>
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<table>
<thead>
<tr>
<th>HDR enrolments</th>
<th>16 Students</th>
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<tbody>
<tr>
<td><em>(Includes extended grant) (Excludes carry forward $)</em></td>
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</tr>
<tr>
<td><strong>Research income 2014</strong></td>
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<tr>
<td><em>Excludes carry forward values</em></td>
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</tr>
<tr>
<td>Category 1</td>
<td>11 grants</td>
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<tr>
<td>Category 2</td>
<td>8 agreements</td>
</tr>
<tr>
<td>Category 3</td>
<td>14 agreements</td>
</tr>
<tr>
<td>Consulting</td>
<td>1 agreements</td>
</tr>
</tbody>
</table>

| Publications | |
| Books and Book Chapters | 1 |
| Journal articles | 62 |
| ADJ Data Watch Series | 3 |
| Report for an external body | 1 |

There is a need to run the comparisons of these performance metrics against available comparators. However, some strategies for ARCPOH to consider are:

- moving toward PhD thesis assessment by published papers for most/all candidates
- building the income stream in Category 1 and Category 2 awards. Consequently we have successfully broadened our scope to include the Australian Primary Health Care Research Institute’s awards
- building the Category 3 international and industry support, through application to NIH or EU funding and further development of key industry partners.
Workshops and Conferences

6th International Meeting on Methodological Issues in Oral Health

ARCPOH hosted the 6th International Meeting on Methodological Issues in Oral Health Research from 1–3 April 2014, at the National Wine Centre, Adelaide. Over 80 representatives from 35 organisations and 18 countries worldwide attended the conference. The conference theme ‘Addressing the complexities in analysing oral health data’, facilitated the discussion of state of the art methodologies on the design, conduct and analysis of oral health research, in particular, but not restricted to, network-meta-analysis, clinical and population studies. The aims of the meeting were to:

▶ Enhance the communication between oral health researchers, statisticians and other scientists interested in high quality oral health research.
▶ Discuss methods to improve the design, conduct and analysis of oral health research. Guest speakers included: Professors John Lynch, Dominique Declerck, John Preisser, Emmanuel Lesaffre, Stuart Gansky and Murray Thomson. Professors Declerck and Lesaffre led a pre-conference workshop and Professor Leopoldo Ferreira Antunes led a post-conference workshop. Invited speakers were incredibly generous with their knowledge and expertise. ARCPOH staff and students truly maximised their capacity. Their visit was extremely beneficial for the great learning opportunity they provided, particularly for our junior researchers and postgraduate students.

International Indigenous Oral Health Conference

The Indigenous Oral Health Unit (IOHU) hosted the International Indigenous Oral Health Conference in Adelaide from 27–29 August. It was the first time in the world a conference specifically for Indigenous Oral Health at an international level had been organised. Key sponsorship was from Colgate Palmolive, the Faculty of Health Sciences (University of Adelaide), the South Australian Dental Service and the Australian Dental Association. Keynote speakers included Professor Kamilla Venner from the University of Albuquerque in New Mexico and Professor Terry Batliner from the University of Colorado in Denver.

There was a strong Aboriginal cultural program which included a welcome to country, smoking ceremony and didgeridoo performance, Indigenous art work on display, Indigenous music performances during the breaks and conference dinner, and videos from Indigenous oral health projects and Indigenous kindergartens during the breaks. There were approximately 92 attendees, including delegates from New Zealand, the United States, Canada, Brazil and Sri Lanka. Approximately 35 delegates were Indigenous. The presentations were of a high scientific standard, with select presenters invited to publish their work in a special issue of the Journal of Health Care for the Poor and Underserved.

The conference provided an opportunity for health professionals, community representatives, service providers and policy makers from around the world to discuss Indigenous oral health issues. The sessions were centred around the issues of culturally appropriate oral health policies and service provision, access to services, prevention and treatment, research and monitoring, the labour force, and advocacy.
Visiting Researchers

**Gustavo Nascimento**

Gustavo Nascimento (PhD Candidate, Pelotas Federal University), is a visiting researcher to ARCPOH. Gustavo is visiting Adelaide under the Science Without Borders program from the Brazilian Government and will be working with Professor Marco Peres, Associate Professor Karen Peres, Associate Professor Loc Do, Mr Kostas Kapellas and Professor Mark Bartold. Gustavo has been involved in three different activities:

1. A systematic review with meta-analysis focusing on the effects of changes in body composition on the incidence of periodontal disease. Collaborators of this work are: M Peres, K Peres and L Do (ARCPOH).

2. An investigation looking at the impact of changes in body composition on periodontal outcomes in a middle adulthood cohort from Brazil. Data for this investigation originated from the EpiFloripa study (Brazil). Specifically, looking at causal mechanisms involved in the relationship between changes in body composition (body fat and central fat) and periodontal outcomes (clinical attachment loss and bleeding on probing). ARCPOH staff involved in this study include: M Peres, K Peres and G Mejia.

3. An analytical study exploring the relationship between life-course body composition and periodontal disease in adulthood. Data in this study originated from the 1982 Pelotas birth cohort (Brazil). There are three specific aims of this study: 1) to test the association between life-course body composition and periodontal disease in adulthood; 2) to test if life-course epidemiology could explain this relationship, evidencing which life-course theory would be more adequate for it; 3) to investigate causal mechanisms behind this association. ARCPOH staff involved in this study include: M Peres, K Peres and L Do.

**Fábio Leite**

Fábio Leite (Adjunct Professor, Federal University of Pelotas) is a visiting researcher to ARCPOH. Fábio is undertaking a sabbatical year at Adelaide under the Science Without Borders program from the Brazilian Government and will be working with Professor Marco Peres, Associate Professor Karen Peres, Associate Professor Loc Do and Professor Mark Bartold. Fábio has been involved in two different activities:

1. An analytical study to validate the signs of periodontal diseases at age 24 as precursors of periodontitis at age 31 in a cohort of young adults from Brazil. Data for this investigation originated from the 1982 Pelotas birth cohort (Brazil). The aim is to evaluate whether early signs of periodontal disease can be used to determine periodontitis development in a later stage of life. ARCPOH staff involved in this study include: M Peres, K Peres and L Do.

2. An investigation looking at the impact of periodontal disease exposures on carotid intima-media thickness (cIMT) in a cohort of young adults from Brazil. Data for this investigation originated from the 1982 Pelotas birth cohort (Brazil). There are two specific aims of this study: 1) to test the association between periodontal disease experience and the increase in cIMT in adulthood; 2) to investigate causal mechanisms behind this association. ARCPOH staff involved in this study include: M Peres, K Peres and L Do.
New HDR Students

Dandara Haag

Thesis title: Dimensions of oral health related to overall quality of life in adults: a population based longitudinal study in Southern Brazil

Dandara graduated in Dentistry in 2013 at the Federal University of Santa Catarina (2009–2013) in Florianópolis, Santa Catarina, Brazil. During her Bachelor Degree, Dandara was involved with the following research activities: Initiation to Research: a project developed by the university for undergraduate students willing to take part in research; a scholarship from the National Program for Undergraduate Research Scholarship (PIBIC/CNPq 2011-2013). In 2014 she obtained a PhD scholarship from the Brazilian Government under the ‘Science Without Borders Program’. The aim of her research at ARCPOH is to study the impact of oral health on quality of life in adults. Dandara’s research areas of interest include public health, epidemiology and quality of life.

Helena Schuch

Thesis title: Social and biological risk factors for periodontal disease in adulthood

Helena is a dentist with a Master’s degree in Dentistry from the Federal University of Pelotas, Brazil. She started her PhD in May, 2014 at ARCPOH as a scholar under the ‘Science Without Borders Program’ (Brazilian Government Scholarship), under the supervision of Professor Marco Peres, Associate Professor Loc Do and Associate Professor Karen Peres. Her study aims to explore social and biological risk factors for periodontal diseases in adulthood using a life-course approach. Helena collected the data in her home country and has narrowed down her research question by reviewing literature and enhancing research skills through attending University workshops such as the Integrated Bridging Program (IBP-R).

Ankur Singh

Thesis title: Theoretical and empirical explanations for the relationship between social inequalities and population oral health outcomes

Ankur graduated in dental surgery from India and completed his MSc in Dental Public Health from University College London, UK. His Master’s dissertation focused on social inequalities in clustering of oral health behaviours among British adults. He has previously worked with the Department of Health Promotion and Tobacco Control at the Public Health Foundation of India (PHFI) and has contributed extensively to various projects during his tenure. He joined ARCPOH in May, 2014 as a PhD candidate and his project aims to explore the relationship between social capital and neo-materialism with oral health. He was awarded a prestigious Australian Postgraduate Award – International. His supervisors are Professor Marco Peres and Dr Jane Harford.
Research Activity

National Child Oral Health Survey
The National Child Oral Health Survey 2011–15 (NCOHS) was funded by an NHMRC Partnership Project Grant under the scientific title ‘Impact of health policy on the delivery of dental services and child oral health outcomes’. NCOHS is a collaborative project between ARCPOH and state/territory dental services. ARCPOH designed and coordinated all survey activities. Clinical fieldwork was conducted by state/territory dental services. All partners have signed a Multi-Institutional Agreement with the University of Adelaide. By December 2014, fieldwork data collection was completed in all states/territories except for Victoria, which was due to complete in early 2015. A total of over 26,000 children aged 5 to 14 years across the country were examined and their parents completed a parental questionnaire. Questionnaires received from states/territories were being entered. It is expected that data management and weighting will be complete in the second half of 2015.

The Queensland Child Oral Health Survey
The Queensland Child Oral Health Survey 2010–12 was commissioned by Queensland Health to provide a snapshot of child oral health in Queensland, including levels of dental decay, dental fluorosis and perceived oral health. The survey report, 'The Beginning of Change: Queensland Child Oral Health Survey 2011–2012' was prepared by ARCPOH staff and published through Queensland Health at the end of 2014. This report provides a detailed snapshot of the oral health status of school children at the beginning of the second decade of the 21st Century. This period is characterised by the commencement of a major population oral health program, the extension of water fluoridation in Queensland. This publication describes the levels of dental decay, dental fluorosis and perceived oral health. It also describes other decay-protective and decay-risk factors, the use of services by children. Finally, it presents information on child oral health using frameworks that emphasise variations by socioeconomic characteristics of children's households and regions of Queensland. The results illustrate the challenges and prospects of population- and individual-level prevention of oral disease and delivery of dental services for children in the contemporary situation of Queensland.

The Study of Mother and Infant Life Events Affecting Oral Health
The Study of Mother and Infant Life Events Affecting Oral Health also known as the SMILE study, commenced in 2013. SMILE is being funded by a National Health and Medical Research Council (NHMRC) Project Grant and aims to look at the oral health of children from birth until the age of 2–3 years. The study will also aim to identify the critical factors that shape the oral health of toddlers and pre-school children. Mothers who had just given birth were recruited from three hospitals and just over 2,100 mother/child pairs initially consented to participate. Parents are being approached to complete questionnaires about various aspects of the child’s life, including diet, fluid consumption and other factors that might impact on oral health. Children will be given an assessment at age 2–3 years that includes a dental examination and anthropometric measurements. At the end of 2014, the 3-month follow-up round had been completed and the 6-month and 12-month follow-ups were underway. The 3-month round achieved a 74% response rate.
Publications

Book Chapter

Report for an external body


Data Watch


Journal Articles


Brennan DS and Spencer AJ. Income-based life course models of caries in 30-year-old Australian adults. Community Dent Oral Epidemiol (accepted December).


Diniz IMS, de Fátima M, Duarte S, Peres KG, de Oliveira D and Berndt A. Active commuting by bicycle: results of an educational intervention study. J Physical Activity and Health.


Duca GF, Silva DAS, Nahas MV, Hallal PC, Malta DC and Peres MA. Indicators of physical activity in adults from a capital of a State in South of Brazil: comparison between telephone and face-to-face interview. Cadernos de Saúde Pública.

Freire MCM, Jordão LMR, Malta DC, Andrade SA and Peres MA. Socio-economic inequalities in oral health behaviours among Brazilian adolescents from 2009 to 2012. Revista de Saúde Pública.


Kempster C, Roberts-Thomson KF and Luzzi L. Australian dentists: characteristics of those who employ or are willing to employ oral health therapists. Aust Dent J (accepted August).


Peres MA, Luzzi L, Peres KG, Sabah W and Antunes JL. Income-related inequalities in inadequate dentition over time in Australia, Brazil and USA. Community Dentistry and Oral Epidemiology.


Saldanha I and Peres KG. Active commuting by bicycle: results of an educational intervention study. J Physical Activity and Health, 2014 Published online May 21, 2014.


Shin BM, Ryu J, Sheiham A, Do LG and Jung SH. Is the association between socioeconomic position and periodontal health explained more by the Critical Period or the Social Mobility life course model? J Clinical Periodontology (accepted December).


Srisilapanan P, Korwanich N and Lalloo R. Associations between social inequality and tooth loss in a household sample of elderly Thai people aged >60 years old.

Tan H, Peres KG and Peres MA. Do people with shortened dental arches have worse oral health related quality of life than those with more natural teeth? Community Dent Oral Epidemiol.

Submitted for Publication


Crocombe LA, Brennan DS and Slade GD. Does lower lifetime fluoride exposure care explain why people outside capital cities have poor clinical oral health? Australian Dental Journal.


Jones K, Merrick J and Beasley C. A content analysis of oral health messages in Australian mass media. Aust Dent J.


Ozcarriz SS, Bernardo CC, Cembrane FF, Peres MA and González-Chica DA. Dietary practices among patients with diabetes and hypertension are similar to healthy people. A population-based study (EpiFloripa). BMC Public Health.

Peres KG, Cascaes AM, Peres MA, Demarco FF, Santos IS, Matijasevic and Barros AJD. Exclusive breastfeeding reduces the risk of primary-dentition malocclusion: A birth Cohort study. Pediatrics (submitted October).


Schuch HS, Peres KG, Do LG and Peres MA. Can socioeconomic trajectories during the life influence on periodontal disease occurrence in adulthood? Hypotheses from a life course perspective. Journal of Medical Hypothesis.

Shin BM, Ryu JI, Shelham A, Do LG and Jung SW. Which life course model better explains the association between socioeconomic position and periodontal health? J Clinical Periodontology.

Singh A, Harford J, Watt RG and Peres MA. The role of theories in explaining association between social inequalities and population oral health: a scoping review protocol. JBI Database of Systematic Reviews and Implementation Reports (submitted November).


Presentations

2nd International Primary Health Care Reform Conference, Brisbane, 17–19 March 2014

Barnett T*, What is Primary Oral Care? (poster). Brennan DS, Slack-Smith L, Roberts-Thomson KF and Crocombe LA.


Validating EQ-5D health states based on UK and Australian values. Brennan DS* and Teusner DN.

The validation of a job satisfaction scale in Australian dentists: A comparison of factor analytic approaches. Chrisopoulos S*, Luzzi L and Brennan DS.

Data mining and dendograms: some possibilities for using 21stC computational linguistics to reinvent oral health research. Bell E and Crocombe LA*.

The influence of lifetime fluoride exposure on clinical rural oral health in young adults. Crocombe L*, Brennan DS, Slade GD, Stewart JF and Spencer AJ.

Why dental practitioners do and don’t practice in rural areas in Australia: a qualitative study. Godwin DM*, Hoang H, Crocombe LA and Bell E.

A retrospective analysis of Medicare rebate claims overtime and region of the Australian Chronic Disease Dental Scheme for the period 2008–2013. Hoang H, Kraatz J, Qin D, Godwin DM and Crocombe LA*.

Assessing income-related inequality in child oral health using multilevel zero-inflated regression. Do LG* and Ha DH.

Is the association between socioeconomic status and non-replaced extracted teeth mediated by dental care behaviours in adults? Ghorbani Z* and Peres KG.

Multiple imputation method for estimating dental caries prevalence and severity: a simulation study. Ha D*, Koster CR, Mejia GC and Do LG.

A longitudinal analysis of dentist provision of dental visits in Australia. Ju X* and Brennan DS.

Is multiple imputation a correct method to assess missing data from an RCT with heavy loss to follow up? Kapellas K* and Jamieson LM.


G-side or R-side random effects in modelling caries data. Liu P*, Peres MA and Peres KG.

Imputing zero inflated count data: an application using oral health data. Mittinty MN*, Mejia GC, Teusner DN and Lynch J.


Comparison of annual dental service fees collected via different methods (poster). Teusner DN*, Brennan DS and Gnanamanickam ES.

Special Care Dentistry Meeting, 10–14 April 2014, Chicago, USA

Training in oral care for carers of adults with physical and intellectual disabilities. Pradhan A*, Brennan DS and Keuskamp D.

Health Improvement Research Seminar, School of Medicine, University of Tasmania, Hobart, May 2014

Fluoridation and dental caries experience of younger rural adults (poster). Crocombe LA*, Brennan DS and Slade GD.

World Congress in Cardiology General Scientific Session, 4–7 May 2014, Melbourne Convention and Exhibition Centre, Melbourne, Victoria, Australia


Menzies Research Institute Tasmania, University of Tasmania, Primary care theme meeting. Hobart, May 2014


Health Improvement Research Seminar, School of Medicine, University of Tasmania, Hobart, May 2014

Fluoridation and dental caries experience of younger rural adults (poster). Crocombe LA*, Brennan DS and Slade GD.

Oral Health Presentations to Non-dental Health Practitioners in Rural and Remote QLD: a case study (poster) Stuart J, Hoang H, Barnett T, Crocombe LA*.

92nd General Session and Exhibition of the International Association for Dental Research (IADR), 25–28 June 2014, Cape Town, South Africa


Effectiveness of water fluoridation-multilevel analysis of a population-based study. Do L* and Spencer AJ.


Symposium: Caries prevention in Indigenous populations: outcomes from Australia. Hedges J* and Jamieson LM.

Self-efficacy associated with oral health among pregnant Aboriginal Australian women (poster). Jamieson LM*, Parker EJ, Roberts-Thomson KF, Lawrence HP and Broughton JR.

Access, behavioural and oral health associations in an Indigenous population (poster). Jones K*, Parker EJ and Jamieson LM.
Systemic diseases predict periodontal attachment loss progression: a longitudinal study (poster). Ju X*, Do LG, Mejia GC and Spencer AJ.

Impact of funding incentives on dental public health waiting lists (poster). Lalloo R* and Kroon J.


Family income trajectory and increases in dental caries. Liu P*, Peres KG, Demarco FF, Silva AER and Peres MA.


Income-related inequalities in inadequate dentition in Australia, Brazil and USA. Peres MA*, Do LG, Peres KG, Luzzi L, Sabbath W and Antunes JLF.

Are self-rated general and oral health associated with different factors? (poster) Roberts Thomson KF* and Do LG.

Symposium: Prevention in Indigenous populations: outcomes from Australia and New Zealand. Roberts Thomson KF.

Keynote Address: Appraisal of approaches to assessing the effectiveness of water fluoridation. Spencer AJ.

Shortened dental arches and oral health-related quality of life. Tan H*, Peres KG and Peres MA.

Factors associated with self-rated oral health of new mothers. Wong CY*, Trion L, Ha DH, Spencer AJ and Do LG. (poster)

12th Annual Research Day, School of Dentistry, Faculty of Health Sciences, University of Adelaide, 11 July 2014, Adelaide Convention Centre, Adelaide, South Australia


Career motivation associated with orientation of dental practice toward disadvantaged groups. Gardner S*, Winning TA, Peterson R and Roberts-Thomson KF.

Oral health and its relationship with prospective dental service use. Gnanamanickam ES*, Teusner DN and Brennan DS.

The effect of periodontal therapy on carotid intima-media thickness among Aboriginal Australians: a randomised controlled trial. Kapellas K*, Bartold PM, Do LG, Skilton M and Jamieson LM.


VI European Congress of Methodology, 23–25 July 2014, Faculty of Social and Behavioural Sciences, University Utrecht, Utrecht, The Netherlands

Assessing income-related inequality in child oral health using multilevel zero-inflated regression. Do LG* and Ha DH.

Methods for modelling count outcome with excess zeroes: application with dental caries (poster). Ha D*, Spencer AJ, Do LG and Peres M.


Variations in access to oral health care in Australia and how might these be tackled? Crocombe LA (guest speaker).

Policy Round Table. Commonwealth Department of Health, Scarborough House, Woden, Canberra, Australian Capital Territory, Australia, August 2014

Lessons from the Australian Chronic Disease Dental Scheme. Crocombe LA (guest speaker)

20th IEA World Congress of Epidemiology, 17–21 August 2014, Anchorage, Alaska, USA

The effect of periodontal therapy on carotid intima-media thickness among Indigenous Australians: A randomised controlled trial. Kapellas K.

Influence of life-course income trajectories on oral health outcomes: findings from the Pelotas, Brazil, birth cohort studies. Peres KG.

Income-related inequalities in oral health over time among adults from Australia, Brazil and USA. Peres MA.


Service use and perceived need among NAIDOC ceremony attendees. Arrow P*.

Strategies and difficulties in recruiting children for the National Child Oral Health Survey WA. Arrow P*.


Dental Health in Indigenous Australian Children: a longitudinal study. Ju X*, Mejia GC and Jamieson LM.

Effect of non-surgical periodontal therapy on glycaemic control and vascular endpoints – results from the PerioCardio study. Kapellas K.


Utilisation of culturally appropriate services and staff in providing dental health information for pregnant Aboriginal women in Australia. Hedges J*.

South Australian Aboriginal Health Research Showcase, South Australian Health and Medical Research Institute (SAHMRI), 2–3 September 2014, SAHMRI, North Terrace, Adelaide

An overview of contemporary Indigenous oral health research at the Indigenous Oral Health Unit. Jones K.
ACHSM 2014 Asia Pacific Annual Congress. 23 September, 2014, Adelaide Convention Centre, Adelaide, South Australia

What can health managers learn from the Australian Chronic Disease Dental Scheme? Crocombe LA (September 2014).


Role of theories in explaining the association between social inequalities and population oral health – Protocol of a Scoping Review. Singh A*, Harford J, Watt RG and Peres MA.

Australian Dental and Oral Health Therapists Association (NSW) Conference, 26–27 September 2014, Port Macquarie, New South Wales

Recent developments in the understanding of dental anxiety. Armfield JM.

2014 Annual Scientific Meeting of the ANZ Division of the International Association for Dental Research (IADR) ‘Inequalities to Personalized Medicine: A Tale of Disparities’, 29 September – 1 October 2014, Brisbane, Queensland, Australia

How important is it to be satisfied? Comparing levels of importance and satisfaction with work-related attributes among Australian dentists. Luzzi L*, Armfield JM and Chrisopoulos S.

Trends of Caries Experience and Associated Factors among Indigenous Children. Ha DH*, Jamieson LM and Luzzi L.

Dental fear management techniques used by Australian dentists. Armfield JM*, Mohan H and Luzzi L.


Job satisfaction in Australian oral health practitioners: a national cross-sectional study. Chrisopoulos S.

Factors attributable for child dental caries experience – a population-based study. Do LG*, Ha and Spencer AJ.

Oral health and its relationship with prospective dental service use. Gnanamanickam E*, Teusner DN and Brennan DS.

Quality and readability of online information about wisdom teeth problems. Hanna KMB, Brennan DS, Armfield JM and Sambrook P.


Self-efficacy, oral health literacy and self-rated oral health among Aboriginal Australians. Jones K.

Health among PerioCardio Study participants: does imprisonment exacerbate inequalities? Kapellas K.

Perceived dental pain: determinants and impacts in Brazilian schoolchildren. Schuch HS*, Correa MB, Torriani DD, Demarco FF and Goettems ML.

Chinese dental beliefs, SES and dental visits among Chinese migrants. Tan H.

2014 State Population Health Conference, Promotion Public Health Research, Policy and Practice Now and Into the Future, 18 October 2014, Education Development Centre (EDC), Hindmarsh, South Australia

Pre- and post-training comparison of dental efficacy and activation measures in carers of adults with disabilities. Pradhan A*, Keuskamp D and Brennan DS.

Caries risk assessment of Queensland children – CART/CHAID tree analysis. Koster CR*, Ha D and Do LG.

World Cancer Congress, Melbourne, Australia, 6 December 2014


* presenter