## ARCPOH

### Foundation and mission

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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.
Foundation and mission

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.

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); 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.

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)
> Discipline of Public Health, School of Population Health and Clinical Practice
> 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 nine years ARCPoH has had a team approach to its management. In 2013 ARCPoH had the following management positions:

- Professor Marco Peres (Director, ARCPoH)
- Professor Kaye Roberts-Thomson (Director, ARCPoH; Director, DPERU; Director, NOHPC)
- Associate Professor David Brennan (Deputy Director, ARCPoH; Director, HSRU)
- Dr Liana Luzzi (Director, AIHW DSRU)
- Associate Professor Lisa Jamieson (Director, IOHU).
- Associate Professor Loc Do
- Associate Professor Karen Peres

Professor Marco A Peres

Director, ARCPoH
Professor of Population Oral Health

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

Associate Professor David S Brennan

Deputy Director, ARCPoH
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 APHCRF funded Centre of Research Excellence in Primary Oral Health Care.

Professor Kaye F Roberts-Thomson

Director, ARCPoH
Director, DPERU
Director, NOHPC
Professor

Kaye Roberts-Thomson BDSc, MPH has research interests in oral epidemiology and dental public health, particularly in inequality in oral health and access to dental care. Her recent work has a particular focus on the oral health of Indigenous Australian’s, and health promotion for oral health. Her research is largely funded by NHMRC and involves an examination of the determinants of periodontal disease in an urban Aboriginal population, the testing of silver fluoride to manage deciduous caries in a preschool population, and the National Child Oral Health Survey. Kaye also leads the National Oral Health Promotion Clearinghouse and the Dental Practice Education Research Unit, both of which seek to provide information on the latest research findings to a wider audience.

Dr Liana Luzzi

Director, AIHW DSRU
Research Fellow

Liana is a 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.

Directors of ARCPoH: Professor Marco Peres and Professor Kaye Roberts-Thomson
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 Master 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 started in 1982, 1993 and 2004. She is also involved in other large cohort studies in Florianopolis, Brazil, the EPIFLORIAPA study, a cohort of adults.

In December 2012, she was appointed as an Associate Professor at the Australian Research Centre for Population Oral Health.
Governance

In formal terms ARCPOH is organisationally a component of the University of Adelaide. Its Director(s), 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 DSRU there is a responsibility to the Director and Board of the Australian Institute of Health and Welfare (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

Functions

To advise the University of Adelaide, the Director(s) 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.

Membership

- Vice-Chancellor of the University of Adelaide or nominee (Convener) (Prof. Johann de Vries/ 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 Charles Maskell-Knight/ Ms Margaret Noris)
- Nominee of Colgate Oral Care, Colgate-Palmolive Australia (Dr Susan Cartwright)
- Nominee of the South Australian Department of Health (Mr David Banham)
- 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-Meyer)
- Community representative nominated by the Australian Council of Social Services (ACOSS) (Dr Tessa Boyd-Caine)
- 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. Tony Harris
  - Prof. John Lynch
- Directors of ARCPOH (Prof. Marco Peres/ Prof. Kaye Roberts-Thomson)
- Deputy Director of ARCPOH (Assoc. Prof. David Brennan)
- Director, AIHW DSRU (Dr Liana Luzzi)
- Director, Indigenous Oral Health Unit (IOHU) (Assoc. Prof. Lisa Jamieson)
- ARCPOH Executive Committee members (Assoc. Prof. Karen Peres/ Assoc. Prof. Loc Do)
- Directors of ARCPOH
- Deputy Director of ARCPOH
- Director and ARCPOH executive committee members
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.

New research themes in 2012 included the effectiveness of the integration of oral health into primary health care settings.

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.

Australian Research Centre for Population Oral Health
Framework for the research program and work programs within ARCPOH

Research program ARCPOH

- **Distribution and determinants of oral health**
- **Burden and impact of oral disease**
- **Effectiveness of population oral health interventions**
- **Oral health services and labour force research**
- **Oral health policy analysis**
- **Oral health promotion data warehouse and information clearinghouse**

**Work program**
- **DSRU**
- **DPERU**
- **NOHPC**

**AIHW DSRU**
- Dental health statistics
- IOHU

**DPERU**
- IOHU

**Centre of Research Excellence in Primary Oral Health Care (APHCRI)**

**Centre of Research Excellence in Health Services Research (NHMRC)**

**National Oral Health Promotion Clearinghouse**
Directors’ Report

The environment

The environment in which ARCPOH operated across 2013 was shaped by the following events:

> Professor Marco Peres from Brazil commenced as Professor of Population Oral Health from 1 December 2012. Professor Peres and Professor Kaye Roberts Thomson shared the Directorship in 2013 to facilitate a smooth transition.

> The current National Oral Health Plan, led by Health Workforce Australia (HWA), reviewed both the types and the remit of their collaborating units of which the Dental Statistics and Research Unit (DSRU) at ARCPOH is one. It was decided that HWA would bring some of the activities previously undertaken by DSRU ‘in-house’ with DSRU acting in an advisory capacity but full details of the 2013–15 agreement are yet to be decided. HWA has extended the existing arrangements with the University of Adelaide while the new MoU is negotiated. This extension will be for the period 1 July 2013 to 31 January 2014.

> The current National Oral Health Plan concluded in 2013; plans are underway to develop the next plan. ARCPOH staff were involved in workshops and Professor Kaye Roberts-Thomson and Associate Professor Lisa Jamieson led the development of the Indigenous component of the proposed plan.

> ARCPOH staff attended workshops run by Health Workforce Australia (HWA) on the dental labour force and provided information to HWA to assist in their projection work.

> As a result of new grants received in 2012 and 2013, and some previous caution in recruitment, a number of new positions were advertised and filled. Consequently, 10 new staff were appointed.

> All ARCPOH staff dedicated time in February and March working in small groups discussing planning and strategies for the near and middle future for ARCPOH. It was a rich process that culminated in some important decisions such as the creation of coursework for all postgraduate students addressing core issues in population oral health, the implementation of a summer course from 2015, the expansion of international partnerships, and also the reorganisation of some administrative procedures compatible with an organisation as large as ARCPOH.

> Following ARCPOH policy for professional development, some researchers participated in population oral health related area courses such as Methods in Epidemiology (International Epidemiological Association, China), Social Epidemiology (Melbourne) and Multilevel Analysis (online course, University of Bristol). In the second semester 2013, ARCPOH researchers attended the Introduction to Longitudinal Analysis and Introduction to the Design and Analysis of Clinical Trials (Finders University).

> Two courses were developed and delivered at ARCPOH in 2013: Data cleaning (D Teusner and K Kapellas) and Fundamental of Epidemiology (M Peres, K Peres and G Mejia).

> 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, including Public Health, the Data Management Analysis Centre (DMAC), Australian Health Technology Assessment (AHTA), the Joanna Briggs Institute (JBI) [now School of Translational health Science] and General Practice to build synergies with existing themes in the South Australian Health and Medical Research Institute (SAHMRI) and the University of South Australia.

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Highlights

In 2013, there were some notable highlights:

> Work commenced on projects funded by the Centre of Research Excellence (CRE) Primary Health Care grant from the Australian Primary Health Care Research Institute. The CRE ARCPOH component undertakes oral health research in the areas of ageing, Indigenous health and health of people with disabilities.

> A healthy number of NHMRC applications were submitted for 2014 (seven project grants, one partnership grant and one career development fellowship).

> Professor Marco Peres explored opportunities for new research collaborations particularly on the North West Adelaide Health Survey, a cohort of adults, a development of a global oral health inequalities research agenda and partnership with research groups in US (University of Oregon), UK (University College London), Brazil (Federal University of Pelotas, Federal University of Santa Catarina, University of Sao Paulo), and New Zealand (University of Otago).

> ARCPOH research staff were well represented at the International Association for Dental Research (IADR) meeting in Seattle, Washington, USA on 20–23 March 2013, presenting their research. Twelve staff presented their work which was well received.

> Dr Jason Armfield was invited to speak at the Journee Dentaires Internationals du Quebec on ‘Dental fear: characteristics, consequences, causes and treatment’ in Montreal, Canada on 24–28 May 2013. On 28 May he presented to the Association des Dentistes de Santé Publique du Québec (Québec Association of Public Health Dentists) on ‘Water fluoridation: unravelling the web of deceit’.

> ARCPOH hosted a number of visitors in 2013 and invited external scientists to present at ARCPOH seminars every six weeks or so.
Dr Jason Armfield was appointed as Treasurer of the International Association for Dental Research (IADR) Australian and New Zealand (ANZ) Division following their Bangkok meeting held in August. The term is for August 2013 to September 2016.

Professor Marco Peres was appointed Regional Councilor for the Asia and Pacific region of the IADR Global Oral Health Research Network.

Professor Marco Peres, Emeritus Professor A John Spencer and Associate Professor Loc Do were appointed as members of the Nutrient Reference Values – fluoride expert working groups; Professor Peres is the deputy chair of the group.

The following staff promotions were attained: J Armfield (Level C to Level D), L Luzzi (Level B to Level C), D Ha and K Jones (Level A to Level B).

New challenges

Managing a large research centre requires new structures and reporting arrangements. There has been discussion with the Human Resources section of the university about some possible arrangements.

The ARCPOH Gang of Five (Go5) Committee was expanded to include staff that are Professors, Associate Professors and Unit Directors. K Peres and L Do were welcomed to the Committee. The Go5 Committee is now referred to as ARCPOH’s Executive Committee.

A new Unit in ARCPOH—the Health Services Research Unit—has been instigated. It is managed by Associate Professor David Brennan and contains the NHMRC Centre of Research Excellence in Dental Health Services Research for Improved Oral Health Outcomes and the Centre of Research Excellence in Primary Oral Health Care.

It was announced that, as of 2014, Dr Liana Luzzi will be the Deputy Director at ARCPOH.

A new ARCPOH Website Strategy Committee was developed. This Committee includes P Liu, K Kapellas, L Lucas, K Peres and L Luzzi.

Lowlights

Uncertainty, as to the future of funding from AIHW through the Australian Government Department of Health (AGDH) as from July 2013 remains a concern.

As from January 2014, there is some uncertainty and concerns as to the future of funding from AIHW through AGDH.

The Australian Dental Association (ADA) decided to contract Insight Economics to review ARCPOH’s labour force projections. Despite attempts to develop the relationship between ARCPOH and the ADA, this was undertaken and completed without any consultation or contact with ARCPOH. Some disparaging remarks were made about ARCPOH’s work which were then printed in the ADA newsletter. Whilst happy for our work to be evaluated, the quality of this evaluation was at least questionable and a rebuttal was prepared. The Dean and Directors met with the ADA Executive to voice our concerns. The Directors met with the Executive in December 2013 to put the relationship on a more positive footing.

All seven NHMRC research project grant applications and one fellowship application, led by ARCPOH staff, were unsuccessful. Only one out of three applications led by other institutions that ARCPOH staff were named on was successful.
Work Program

Overall
> The 2013 National Dental Telephone Interview Survey was the major component of the work for 2013.

Distribution and determinants of oral health
> Analyses from the 2010 CDHS data will be presented in “Oral health and dental care in Australia, Key facts and figures trends 2014” (due for release in August 2014) rather than as a separate DSR series report.
> Continued challenges in obtaining timely data for the CDHS reporting were addressed.

Burden and impact of oral disease
> A developing focus of recent analyses has been social gradients in oral health. An application to Channel 7 for a grant to explore this in more detail using a questionnaire to participants in the National Child Oral Health Survey was submitted.
> ARCPOH was involved in the oral health component of the Human Capability in Australia, a data linkage project led by Professor John Lynch.

Effectiveness of population oral health interventions
> The fieldwork for the NHMRC Project Grant involving a clinical trial of caries management techniques for residents in aged care facilities is almost complete.
> The recruitment of participants for the Australian arm of the international collaborative project on early childhood caries was completed. There were over 400 participants recruited. Follow-up contacts were undertaken. Retention of participants in the study was difficult particularly in metropolitan Adelaide.
> The NHMRC funded fieldwork for the trial of a non-invasive treatment for deciduous caries began and baseline data collection was completed at one site. This project compares use of silver fluoride with the atraumatic restorative technique using a glass ionomer cement.

Oral health services and labour force research
> A report on practice characteristics and projections (2006–2025) for oral health practitioners was published. Projections on the supply of specialist dentists is written and is being modified.
> A study of the work practices of oral health therapists is in the field. There is very little information on the work of this relatively new dental practitioner.

Oral health policy analysis
> An analysis on the access to dental care of teenagers under the Teen Dental Program was published as a Data Watch article in the Australian Dental Journal.

Oral health data warehouse and information clearinghouse
> The latest “Key facts and figures” report on oral health and dental services produced for the AGDH was released:
> The Data Watch series in the Australian Dental Journal continued with the following published papers:
Contractual Research

> 2012 Oral Health Survey of Older Persons in New Zealand: ARCPOH continued to advise on interpretations of the protocol.

> To evaluate a trial of a ‘train the trainer’ model of oral health education and assessment for community nursing staff working with community dwelling frail elderly, ARCPOH has an agreement with SA Dental Service.

> ARCPOH agreed to provide advice on an oral health survey in Tuvalu for the AGDH under the Pacific Senior Health Officers Network.

> A contract between the AGDH and ARCPOH was signed to provide support to the Fluoride Nutrient Reference Values Expert Working Group. Professor Marco Peres is Deputy Chair of the Group, Emeritus A John Spencer and Associate Professor Loc Do are group members, and Dr Najith Amarasena and Mr Emmanuel Gnanamanickam are working on the project.

> The Brunei Ministry of Health informally agreed that ARCPOH will lead their oral health survey. This contract will involve Professor Kaye Roberts-Thomson, Emeritus Professor A John Spencer, Dr Gloria Mejia and Associate Professor Loc Do.

Teaching

> ARCPOH staff were active at both the planning and implementation of the new BDS curriculum (J Harford) and delivery of the material (many staff). The fourth and fifth years of the revised curriculum were implemented.

> A number of ARCPOH staff undertook courses in Teaching @ University.

> The proposal for a series of postgraduate coursework programs was slowed by some structural considerations by the University.

> A structured program for postgraduate students was developed and will be implemented during 2013 and 2014, in Fundamentals of Epidemiology, Oral Epidemiology, Oral Health Promotion, Oral Health Policy and Economics, Biostatistics and Data cleaning. Population Oral Health will be a specialty area in the Master of Public Health (MPH) at the School of Public Health at the University of Adelaide: MPH (Population Oral Health).

> A summer course in population oral health was proposed for the summer of 2015.

> The University of Adelaide Program Approval and Entry Committee reviewed the program proposal for the postgraduate coursework programs in Population Oral Health submitted by ARCPOH in April 2012. Following consideration by the Committee, no recommendation was made but in considering the proposals, two issues were raised: the first regarding the target market and the second regarding the costs and resource requirements for the development, maintenance and ongoing support of the programs. Resubmission was halted until these issues could be addressed and/or other strategies sought.

> 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 to be delivered within the existing Master’s degree. 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.
### Activity Summary

#### Distribution and Determinants of Oral Health

<table>
<thead>
<tr>
<th>Project/Study</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult Dental Programs Survey</td>
<td>A life course epidemiological approach to understanding oral health</td>
</tr>
<tr>
<td></td>
<td>inequalities (NHMRC Project Grant)</td>
</tr>
<tr>
<td>Associations between periodontal disease and cardiovascular surrogate</td>
<td>endpoints in an adult Indigenous population (NHMRC project grant)</td>
</tr>
<tr>
<td>Caries Initiation Study</td>
<td></td>
</tr>
<tr>
<td>Child Dental Health Survey (CDHS)</td>
<td></td>
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<tr>
<td>Child Fluoride Study Mark II (NHMRC)</td>
<td></td>
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<tr>
<td>Dental anxiety and past experiences: a qualitative study with dentally</td>
<td></td>
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<tr>
<td>fearful Australian adults (ADRF)</td>
<td></td>
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<tr>
<td>Exploring factors associated with dental behaviours of carers: oral health</td>
<td></td>
</tr>
<tr>
<td>literacy and psychosocial measures</td>
<td></td>
</tr>
<tr>
<td>Impacts of dental beliefs and behaviours on oral health related quality of</td>
<td></td>
</tr>
<tr>
<td>life among middle-aged and older Chinese immigrants in Australia (ADRF)</td>
<td></td>
</tr>
<tr>
<td>Indigenous Oral Health</td>
<td></td>
</tr>
<tr>
<td>Intergenerational change in oral health (NHMRC Project Grant)</td>
<td></td>
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<tr>
<td>National Child Oral Health Survey (NCOHS)</td>
<td></td>
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<tr>
<td>Impact of health policy on the delivery of dental services and child oral</td>
<td></td>
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<tr>
<td>health outcomes</td>
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<tr>
<td>National Dental Anxiety and Fear Survey (ADRF)</td>
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<tr>
<td>Natural history of fluorosis (NHMRC)</td>
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<tr>
<td>NSW Teen Survey</td>
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<tr>
<td>Oral cancer – a life course approach</td>
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<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</td>
<td></td>
</tr>
<tr>
<td>(NHMRC project grant)</td>
<td></td>
</tr>
<tr>
<td>Risk indicators for periodontal diseases in rural populations in South India</td>
<td></td>
</tr>
<tr>
<td>Screening and Management of Dental Anxiety Survey (ADRF)</td>
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<tr>
<td>Social gradients in child oral health status and access to services</td>
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</tr>
</tbody>
</table>

#### Effectiveness of Population Oral Health Interventions

<table>
<thead>
<tr>
<th>Project/Study</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>An oral health literacy intervention among rural Indigenous adults</td>
<td></td>
</tr>
<tr>
<td>(NHMRC project grant)</td>
<td></td>
</tr>
<tr>
<td>Early childhood oral health promotion project (WA)</td>
<td></td>
</tr>
<tr>
<td>Health Promotion and Early Childhood Caries (ADRF; Channel 7 Children’s</td>
<td></td>
</tr>
<tr>
<td>Research Foundation), NHMRC: Centre of Clinical Research Excellence</td>
<td></td>
</tr>
<tr>
<td>Population Oral Health Project (SADS)</td>
<td></td>
</tr>
<tr>
<td>Prevention and control of caries in older adults in residential aged care</td>
<td></td>
</tr>
<tr>
<td>(NHMRC)</td>
<td></td>
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<tr>
<td>Randomised control trial of effectiveness of silver fluoride in managing</td>
<td></td>
</tr>
<tr>
<td>deciduous dental caries in remote Aboriginal communities (NHMRC)</td>
<td></td>
</tr>
<tr>
<td>Reducing disease burden and health inequalities arising from chronic</td>
<td></td>
</tr>
<tr>
<td>dental disease among Indigenous children: an early childhood caries</td>
<td></td>
</tr>
<tr>
<td>intervention (NHMRC project grant, in collaboration with New Zealand’s</td>
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<tr>
<td>Health Research Council and Canada’s Institute of Health Research)</td>
<td></td>
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<tr>
<td>The Dental Practice Education Research Unit (DPERU)</td>
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</table>

#### Oral Health Services and Labour Force Research

<table>
<thead>
<tr>
<th>Project/Study</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centre of Research Excellence in Health Services Research (NHMRC)</td>
<td></td>
</tr>
<tr>
<td>Centre of Research Excellence in Primary Oral Health Care (APHCRI)</td>
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<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</td>
<td></td>
</tr>
<tr>
<td>choice</td>
<td></td>
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<tr>
<td>Evaluating profile changes in 1st year BDS students, Adelaide Dental School</td>
<td></td>
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<tr>
<td>over 10-year period</td>
<td></td>
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<tr>
<td>Financial Impact of Dental Services (FIDS)</td>
<td></td>
</tr>
<tr>
<td>Impact of insurance on use of dental services and oral health (NHMRC)</td>
<td></td>
</tr>
<tr>
<td>Job satisfaction survey of the oral health labour force in Australia (ADRF)</td>
<td></td>
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<tr>
<td>Mobility of International Dental Graduates (IDGs) in Australia (ADRF)</td>
<td></td>
</tr>
<tr>
<td>National Dental Telephone Interview Survey (NDTIS) and associated activities</td>
<td></td>
</tr>
<tr>
<td>Preventive maintenance program in Community Dental Services (CDS) – adult</td>
<td></td>
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<tr>
<td>recall (SADS contract)</td>
<td></td>
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<tr>
<td>Private health insurance and use of dental services (ADRF)</td>
<td></td>
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<tr>
<td>Study of private subsidisation of dental care in Australia (SOPS) (ADRF)</td>
<td></td>
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<tr>
<td>The attitudes of Australian dentists towards oral health therapists (ADRF)</td>
<td></td>
</tr>
<tr>
<td>The impact of declining tooth loss on oral health status and dental care</td>
<td></td>
</tr>
<tr>
<td>utilisation (NHMRC)</td>
<td></td>
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<tr>
<td>The Longitudinal Study of Dentists’ Practice Activity</td>
<td></td>
</tr>
</tbody>
</table>

#### Centre of Clinical Research Excellence (CCRE)

<table>
<thead>
<tr>
<th>Project/Study</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCRE for Oral Health</td>
<td></td>
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</tbody>
</table>

#### Oral Health Policy Analysis

<table>
<thead>
<tr>
<th>Project/Study</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impact of ageing on dental costs</td>
<td></td>
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<tr>
<td>Impact of changes in public policy on access to dental care</td>
<td></td>
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<tr>
<td>Oral health messages in the Australian mass media: a content analysis (ADRF</td>
<td></td>
</tr>
<tr>
<td>grant)</td>
<td></td>
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<tr>
<td>Policy analysis</td>
<td></td>
</tr>
<tr>
<td>Reasons for having/not having insurance</td>
<td></td>
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<tr>
<td>Willingness-to-pay for public dental services</td>
<td></td>
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</tbody>
</table>

#### Oral Health Promotion Data Warehouse and Information Clearinghouse

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

| Professors | Professor Marco Peres (Director, ARCPOH)  
Professor Kaye F Roberts-Thomson (Director, ARCPOH; Director, DPERU; Director NOHPC) |
| Emeritus Professor | Emeritus Professor A John Spencer |
| Adjunct Professor | Professor Gary D Slade (University of North Carolina) |
| Associate Professors / Principal Research Fellows | Associate Professor David S Brennan (Deputy Director, ARCPOH)  
Associate Professor Loc Do  
Associate Professor Lisa M Jamieson (Director, IOHU)  
Associate Professor Karen Peres |
| Senior Research Fellows | Dr Jason Armfield  
Dr Peter Arrow  
Dr Len Crocombe |
| Research Fellows | Dr Najith Amarasena  
Dr Liana Luzzi (Director, AIHW DSRU)  
Dr Kamila Plutzer  
Dr Archana Pradhan |
| Honorary Visiting Postdoctoral Fellow | Dr Akram Qutob |
| Senior Lecturers | Dr Jane Harford  
Dr Gloria Mejia |
| Lecturers | Dr Wendy Cheung  
Dr Haiping Tan |
| Research Associates | Dr Olga Anikeeva  
Mr Sergio Chrisopoulous  
Ms Zahra Gorbani  
Dr Deep Ha  
Ms Saima Islam  
Dr Dominic Keuskamp  
Dr Kelly Jones  
Dr Pingzhou Liu  
Ms Dana Teusner |
| Academic Staff from the School of Dentistry | Ms Sue Gardner  
Mr Clinton Kempster  
Ms Jenny Miller  
Dr Eleanor Parker (Deputy Director, IOHU)  
Ms Katrina Plastow |
| Research Officers | Mr Madhan Balasubramanian  
Ms Katie Beckwith  
Ms Reshka Chand  
Ms Anne Ellershaw  
Mr Emmanuel Gnanamani  
Ms Joanne Hedges  
Ms Xiangqun Ju  
Ms Carmen Koster  
Ms Louise Marsh  
Ms Jessica Merrick  
Ms Helen Mills  
Ms Maddy Shearer  
Ms Jasna Tepsic  
Ms Leanne Trio  
Ms Ching Wong |
| Administrative Staff | Ms Annalisa Agresta  
Ms Nikkita Dodds  
Ms Lexi Doidge  
Mrs Beverly Ellis  
Mr David Harley  
Ms Sarah Harman  
Mrs Lorna Lucas  
Mrs Silvana Marveggio  
Mrs Sharon Miller  
Ms Thanh Nguyen  
Ms Teresa Phung  
Ms Gina Stephens  
Ms Rose Thomas  
Ms Ali White |
Staffing Summary

Securing Key Research Staff in ARCPOH

> The NHMRC grant for a Centre of Research Excellence opened up at least two new research positions and scholarships for two HDR students. Support was provided for D Teusner and S Chrisopoulos as well as recruitment of O Anikeeva who has since resigned.

> The Primary Health Research Institute grant for a Centre of Research Excellence opened one new research position, a scholarship for an HDR student and administrative support. This provided support for D Keuskamp and A Agresta. S Islam enrolled as an HDR student.

Accommodation and Facilities

> Space for ARCPOH staff and students has continued to be tight. There was a recent visit from the University’s Staff Planner who plans to create workstations for 8–10 HDR students on the Ground Floor commencing in 2014.

Staffing Changes

New appointments:
> Ms Helen Mills, Research Officer, January 2013
> Dr Dominic Keuskamp, Research Associate, January 2013
> Ms Carmen Koster, Research Officer, January 2013
> Ms Rose Thomas, Research Officer, February 2013
> Ms Reshika Chand, Research Officer, February 2013
> Ms Ching Wong, Research Officer, February 2013
> Ms Annalisa Agresta, Administrative Officer, March 2013
> Ms Zahra Gorbani, Research Associate, 1 July 2013

Resignations and ceased contracts:
> Ms Maddy Shearer (May 2013)
> Ms Lexi Doidge (July 2013)
> Dr Olga Anikeeva (August 2013)
> Ms L Bellifemini (December 2013)

Return from maternity leave:
> Ms T Nguyen
> Ms Ali White

Maternity leave:
> Associate Professor L Jamieson (until March 2014)
> Associate Professor E Parker (until August 2014)
> Ms L Bellifemini (parental leave until December 2013)

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

Awards

> Emeritus Professor A John Spencer, IADR Distinguished Scientist Award for Behavioral, Epidemiologic and Health Services Research, 2013
> Ms Xianggun Ju, School of Dentistry Postgraduate Travel Fellowship, 2013
> Mr Kostas Kapellas, School of Dentistry Postgraduate Travel Fellowship, 2013
> Dr Archana Pradhan, Faculty Poster Award at Special Care Dentistry Meeting, New Orleans, 18–21 April 2013
> In September 2013, at the University of Otago, Sir John Walsh Research Institute 2013 Awards presentations, the Research Publication Award was given to the following paper:
> Mrs Silvana Marveggio and Associate Professor David Brennan were acknowledged in September 2013 for 25 years of service to the University at the University of Adelaide Silver Jubilee Staff Reception.
> Ms Joanne Hedges was awarded an Indigenous staff travel assistance grant ($2,500) in November 2013.
> In November 2013, the Australian Dental Research Foundation (ADR) announced that Dr Gloria Mejia and Dr Wendy Cheung were awarded the International College of Dentists Community Oral Health Award 2013 for the project ‘Maternal and perinatal factors associated with early childhood caries’.
External Committee Appointments

> Dr Jason Armfield, IADR ANZ Division: appointed as Treasurer following the August Bangkok meeting. Term is August 2013 to September 2016.

> Professor M Peres has been appointed as Regional Councilor for the Asia and Pacific region of the IADR Global Oral Health Research Network.

> Professor M Peres, Emeritus Professor A John Spencer and Associate Professor Loc Do were appointed as members of the Nutrient Reference Values – fluoride expert working groups; Professor Peres will be the deputy chair of the group.

> Dr Haiping Tan, IADR General, Geriatric Oral Research Group: Executive Committee Member, 2013–2015.

> Dr Haiping Tan, Australian Association of Gerontology SA Division: Research Committee, Executive Committee Member, 2013–2015.

> Visiting Researchers

> Dr Kate Morgaine, University of Otago, New Zealand, February 2013.

> Professor Warren Bebbington, Vice-Chancellor and President, University of Adelaide, 8 February 2013.

> Dr Craig Lockwood, Invited Seminar Presenter, Analysing the validity of published Dental Research: A case study from Clinical Dentistry, 15 February 2013.

> Ms Manon Ketting, 3rd year Master’s student in dentistry at Academisch Centrum Tandheelkunde Amsterdam (ACTA) in The Netherlands, October 2012 to January 2013.

> Professor Herenia Lawrence, University of Toronto, collaborating on Associate Professor Jamieson’s Baby Teeth Talk Research Project, 8 April 2013 to 17 May 2013.

> Associate Professor Anne Taylor, Population Research and Outcome Studies (PROS), Discipline of Medicine, Faculty of Health Sciences, University of Adelaide: Invited Seminar Presenter, North West Adelaide Health Study, a longitudinal study of adults from the north-western region of Adelaide, 31 May 2013.

> Visiting researcher: Dr Kate Morgaine

> Professor Mark Bartold, Director, Colgate Dental Research Centre, School of Dentistry, University of Adelaide: Invited Seminar Presenter, Periodontal disease in general health, 5 July 2013.

> Professor John Lynch, Professor of Epidemiology and Public Health and Director of the Data Management and Analysis Centre (DMAC), School of Population Health, University of Adelaide: Invited Seminar Presenter, Building a data linkage platform for child health and development research in South Australia, 29 August 2013.

> Dr Iris Espinoza Santander, PhD student, University of Chile: Visiting Scholar with Dr Gloria Mejia, 2 September – 4 October 2013.

> Dr Murthy Mittinty, NHMRC Postdoctoral Researcher, Department of Public Health, School of Population Health, University of Adelaide: Invited Guest Speaker, Overview of imputation methods, 2 October 2013.

> Dr Akram Qutob, Honorary Visiting Postdoctoral Fellow, Women’s and Children’s Hospital, July 2012 to June 2013.

> Dr Maria Loreto Nunez Franz, Head, Department of Public Health, School of Health Sciences, University of Talca, Chile, 14–25 October 2013.
Finance

ARCPOH receives its funding from a range of stakeholders in 2013.

> ARCPOH received $500,000 from the Department of Health through AIHW, for 2012/2013. This contract ended in June 2013 and a new one was executed for July 2013 to January 2014. We expect an additional $250,000 for 2013.

> The Oral Epidemiology Unit received $850,500 from SA Health via AIHW and $70,000 from the Deputy Vice-Chancellor (Research) (DVCR). We expect to receive $119,304 from the School of Dentistry. It was noted that the 2011 & 2012 DVCR and 2011 School’s contribution was not disseminated to ARCPOH. The DVCR’s office has since pledged to extend this support for an additional two years to amend for this oversight. The School has agreed to distribute their 2011 into 2013.

> The Dental Practice Education Research Unit (DPERU) received a total of $158,500 from Colgate Oral Care Australia and New Zealand.

> The National Oral Health Promotion Clearinghouse (NOHPC) expected income is unknown to date as we are still waiting for outcomes from the Federal Government’s Oral Health Promotion Initiative.

> ARCPOH expects $144,000 for SA Australian Dental under the South Australian Dental Service (SADS) Agreement and are currently drafting a new agreement with SADS. We have received $47,000 to date for Geriatric Oral Health.

> ARCPOH received a substantial $3m research support from competitive research grants. The amount of Category 1 National Competitive Research funding was $2.2m and $405,000 contributed to fellowships.

> ARCPOH signed a contract with the Australian Government Department of Health to provide support to the Fluoride Nutrient Reference Values Expert Working Group to the value of $37,800.

> The Brunei Ministry of Health informally agreed that ARCPOH leads their oral health survey. This contract has an estimated value of $139,600.

> University Higher Research Degree Scholarship contributions towards 7.5 student stipends were approximately $184,897.5K.

> In 2013, ARCPOH received approximately $400,000 from RIBG.

> The School of Dentistry and the Faculty of Health Sciences supported 3.4 FTE positions, which total $550,711 (includes oncosts for M Peres 1 FTE, S Marveggio 0.8 FTE, K Peres 0.5 FTE, H Tan 0.5 FTE and J Harford 0.4 FTE).

> Under the University’s Indigenous Employment Strategy, the Indigenous Oral Health Unit (IOHU) received $90,000 salary support towards an HEOS/6 position, 66% funded by the Deputy Vice Chancellor and Vice-President (Academic) (DVC&VP(A)) and 33% by the Faculty of Health Sciences. The IOHU has also obtained an additional $15,000 donation from Colgate Oral Care.

> The NHMRC Centre of Research Excellence received $20,000 from the DVCR and $80,000 from the Faculty of Health Sciences.

> Fellowship NHMRC Salary Supplementation is estimated to be $206,000 based on old University Policy. Under the 2013 budget model all research revenue was distributed ‘as earned’ to faculties and it is unclear how the EB salary supplementation shortfall will be managed within the Faculty of Health Sciences budget.

> In 2013, the Oral Epidemiology Unit received $85,500 from SA Health via AIHW and $70,000 from the Deputy Vice-Chancellor (Research) (DVCR). ARCPOH received $278,000 from the School of Dentistry which included their 2011 contribution. The DVCR’s office has informally pledged to extend their support for an additional two years up to end of 2017 to amend their oversight for ‘lost’ contributions. The agreement with SA Health will need to be further negotiated after 2015 to continue to support this area. For 2014, we expect to receive the same from SA Health and the DVCR and approximately $140,000 from the School of Dentistry (0.66 of professorial value).

~ 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 dated 28 February 2013 held in Darwin, Health Promotion Representatives agreed to contribute $50,000 to support the National Oral Health Promotion Clearinghouse in 2014.

~ ARCPOH was awarded $9,000 of RTS income for 2013. We expected to double our RIBG income for 2013 based on research output scoring and initial estimates were approximately $350,000, having budgeted conservatively at $280,000. However, in 2013 ARCPOH received $182,000 which was equivalent with 2012’s amount. The reduced estimate was due to the Faculty and School retaining a higher share of this income. The management of this allocation makes it increasingly difficult to budget for and cover our actual infrastructure costs. It also highlights the need to seek funding from contracts and consultancy to support infrastructure expenses not supported by NHMRC. The impact of this is carrying over $108,000 debt into 2014 that will need to be cleared using other project support. Based on 2013 outcomes, at this period we have estimated a very conservative $190,000 RIBG and RTS income for 2014.
2013 income summary

ARCPOH

AIHW $500,000

SADS $144,000 Agreement
$47,600 Geriatric

Oral Epidemiology Unit
$283,388,000

Colgate Oral Care
$158,500 DPERU $15,000 IOHU

NOHPC $16,400 Uncertainty

Category 1 Grants $1.79,000
Category 1 Fellowships $405,000
Category 2/3 Other $807,500

Category 2 & 3 Contracts
Other $129,800

Consultancies $39,000

DVC$20,000 CRC $70,000 Oral Epidemiology Unit

DVC&VP(A) $60,000 Indigenous Employment Strategy

Faculty of Health Sciences
$206,000 Salary Sup. $104,600
$30,000 Indigenous Employment Strategy

School of Dentistry $446,125,000
Salaries $119,304,000 Oral Epidemiology Unit

RIBG/RTS TBA

HDR Scholarships $185,000
### Financial status

**Cash flow 1 January to 31 December 2013 ($)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Total operating revenue</th>
<th>Total expenses</th>
<th>Accumulated funds (deficit) at the beginning of reporting period</th>
<th>Accumulated funds (deficit) at end of reporting period</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIHW Dental Statistics and Research Unit (DSRU)</td>
<td>500,000</td>
<td>186,100</td>
<td>692,412</td>
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<tr>
<td>South Australian Dental Service (SADS) Agreements</td>
<td>128,888</td>
<td>37,158</td>
<td>182,663</td>
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<tr>
<td>Oral Epidemiology Unit</td>
<td>301,411</td>
<td>88,096</td>
<td>165,350</td>
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<td>Colgate Dental Practice Education Research Unit (DPERU)</td>
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<td>118,198</td>
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<td>163,279</td>
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<td>National Oral Health Promotion Clearinghouse (NOHPC)</td>
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<td>Indigenous Oral Health Unit (IOHU)</td>
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<tr>
<td>Competitive Research Grants</td>
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<td>2,989,740</td>
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<tr>
<td>Competitive Research Fellowship</td>
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<td>81,370</td>
<td>454,254</td>
<td>38,364</td>
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<tr>
<td>Contracts and Consultancies</td>
<td>201,659</td>
<td>191,156</td>
<td>191,156</td>
<td>202,134</td>
</tr>
<tr>
<td>Research Infrastructure Block Grants (RIBG)</td>
<td>178,051</td>
<td>−7,727</td>
<td>278,561</td>
<td>−108,237</td>
</tr>
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<td>Research Training Scheme (RTS)</td>
<td>−20,037</td>
<td>30,125</td>
<td>1,088</td>
<td>9,000</td>
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<tr>
<td>Other*</td>
<td>0</td>
<td>−74,351</td>
<td>−64,330</td>
<td>−10,021</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4,507,408</strong></td>
<td><strong>2,772,645</strong></td>
<td><strong>5,114,964</strong></td>
<td><strong>2,165,089</strong></td>
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</tbody>
</table>

*2013 Colgate donation income for IOHU recorded incorrectly under ‘Contracts and Consultancies’

**Uncleared ARCPOH Credit Card and Biostatistics Conference**
## Support

### External Support through Agreements 2013

<table>
<thead>
<tr>
<th>Stakeholder</th>
<th>Agreement</th>
<th>Agreement period</th>
<th>Funding period</th>
<th>Funding amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australian Institute of Health and Welfare (AIHW)</td>
<td>AIHW Dental Statistics and Research Unit</td>
<td>2008–12 July–Jan 2014</td>
<td>2012/13 July-Dec 2013</td>
<td>$500,000 $250,000</td>
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<tr>
<td>SA Department of Human Services</td>
<td>Research Unit in Oral Epidemiology</td>
<td>2010–14</td>
<td>2012/13</td>
<td>$85,588</td>
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<tr>
<td>Colgate Oral Care</td>
<td>Dental Practice Education Research Unit</td>
<td>Rollover of agreement</td>
<td>2012/13</td>
<td>$140,000 plus NZ $20,000 (~A$18,500)</td>
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<tr>
<td>South Australian Dental Service</td>
<td>Research agreement Geriodontic research</td>
<td>2011–12</td>
<td>2013</td>
<td>$144,000 $47,000</td>
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<tr>
<td>NZ Ministry of Health</td>
<td>NZ National Dental Survey</td>
<td>2012–2013</td>
<td>2012–2013</td>
<td>$21,000</td>
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</table>

### External Support through Donations

<table>
<thead>
<tr>
<th>Stakeholder</th>
<th>Agreement</th>
<th>Agreement period</th>
<th>Funding period</th>
<th>Funding amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colgate Oral Care</td>
<td>Support for Indigenous Oral Health Unit (IOHU)</td>
<td>2013</td>
<td>2013</td>
<td>$15,000</td>
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</table>
## Research Grant Status

### Competitive Grants – continuing

<table>
<thead>
<tr>
<th>Grant</th>
<th>Grantees</th>
<th>Topic</th>
<th>Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cancer Council</strong></td>
<td>CIF: J Spencer</td>
<td>Assessment of autofluorescence for detection of oral cancer</td>
<td>$512,276 2011: $204,884 2012: $184,884 2013: $122,508</td>
</tr>
<tr>
<td># 1009996</td>
<td>CIA: C Farah, CIB: L Do</td>
<td></td>
<td></td>
</tr>
<tr>
<td># 627222</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># 627100</td>
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<tr>
<td># 627101</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>(NHMRC, HRC, CIHR)</td>
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<td></td>
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<tr>
<td># 627350</td>
<td></td>
<td></td>
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<tr>
<td># 565520</td>
<td></td>
<td></td>
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</tr>
<tr>
<td># 51841</td>
<td></td>
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</tbody>
</table>

22 Australian Research Centre for Population Oral Health
## Fellowships

<table>
<thead>
<tr>
<th>Grant*</th>
<th>Grantees</th>
<th>Topic</th>
<th>Time Period</th>
<th>Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fellowship</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fellowship</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NHMRC Career Development</td>
<td>LG Do</td>
<td>Understanding influences on child oral health</td>
<td>2012–2015: $97,769 pa</td>
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<tr>
<td>Fellowship</td>
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<td></td>
</tr>
<tr>
<td>NHMRC Career Development</td>
<td>DS Brennan</td>
<td>Use of dental services and oral health outcomes</td>
<td>2010–2013: $104,250 pa</td>
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<td>Award</td>
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## 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>Dana Teusner</td>
<td>PhD</td>
<td>Dental insurance and use of services</td>
<td>2008–2013</td>
</tr>
<tr>
<td>Eleanor Parker</td>
<td>PhD (p/t)</td>
<td>Indigenous oral health literacy</td>
<td>2009–2014</td>
</tr>
<tr>
<td>Meghashyam Bhat</td>
<td>PhD</td>
<td>Indicators of periodontal disease in a disadvantaged Indian population</td>
<td>2010–2013</td>
</tr>
<tr>
<td>Madhan Balasubramanian</td>
<td>PhD</td>
<td>Migration of international dental graduates</td>
<td>2010–2013</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>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>2011–2014</td>
</tr>
<tr>
<td>Katie Beckwith</td>
<td>MScDent</td>
<td>The effects of school environment and societal functionality on child oral health practices and oral health outcomes</td>
<td>2012–2015</td>
</tr>
<tr>
<td>Emmanuel Gnanamanickam</td>
<td>PhD</td>
<td>Cost-effectiveness and cost-utility of dental health insurance</td>
<td>2012–2015</td>
</tr>
<tr>
<td>Kamal Maher Batra 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>2013–2015</td>
</tr>
<tr>
<td>Eugene Twigg</td>
<td>DClinDent</td>
<td>Smile aesthetics and perceptions of the Australian general population</td>
<td>2013–2015</td>
</tr>
<tr>
<td>Hai Pham</td>
<td>MPhil</td>
<td>Ethnicity and oral health status of a birth cohort</td>
<td>2013–2015</td>
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<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>2013–2016</td>
</tr>
<tr>
<td>Mary Apps</td>
<td>PhD (p/t)</td>
<td>Social determinants of Indigenous child oral health</td>
<td>2013–2021</td>
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**Honours Students**

<table>
<thead>
<tr>
<th>Student</th>
<th>Topic</th>
<th>Status</th>
<th>Time Period</th>
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</thead>
<tbody>
<tr>
<td>Katrina Plastow</td>
<td>Diet and dental caries</td>
<td>On leave</td>
<td>2007–2011</td>
</tr>
<tr>
<td>Margie Steffans</td>
<td>Associations between self-reported discrimination and oral health among Aboriginal young adults</td>
<td>Part-time</td>
<td>2011–2012</td>
</tr>
<tr>
<td>Shaun Goh</td>
<td>Use of dental services and dental perceptions of an adult Aboriginal population</td>
<td>Part-time</td>
<td>2011–2013</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>Full-time</td>
<td>2013–2014</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>2013–2015</td>
</tr>
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</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>Kostas Kapellas</td>
<td>University of Adelaide Divisional Scholarship / ARCPOH Grant Funded</td>
<td>2010–2013</td>
</tr>
<tr>
<td>Madhan Balasubramanian</td>
<td>Adelaide Scholarship International</td>
<td>2010–2013</td>
</tr>
<tr>
<td>Meghashyam Bhat</td>
<td>Adelaide Postgraduate Award</td>
<td>2010–2013</td>
</tr>
<tr>
<td>Sree Vidy Krishna Rao</td>
<td>Adelaide Postgraduate Award</td>
<td>2011–2014</td>
</tr>
<tr>
<td>Xiangqun Ju</td>
<td>Adelaide Postgraduate Award</td>
<td>2011–2014</td>
</tr>
<tr>
<td>Sue Gardner</td>
<td>University of Adelaide Divisional Scholarship / School of Dentistry</td>
<td>2011–2014</td>
</tr>
<tr>
<td>Katie Beckwith</td>
<td>ARCPOH Grant Funded</td>
<td>2012–2015</td>
</tr>
<tr>
<td>Emmanuel Gnanamanickam</td>
<td>ARCPOH Grant Funded</td>
<td>2012–2015</td>
</tr>
<tr>
<td>Saima Islam</td>
<td>ARCPOH Grant Funded (CRE Primary Health Care)</td>
<td>2013–2016</td>
</tr>
<tr>
<td>Sofia Christofis</td>
<td>Adelaide Postgraduate Award</td>
<td>2013–2016</td>
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</table>
Performance Summary

The metrics on performance of ARCPOH are presented in the ‘ARCPOH at a glance’. These are summarized below as of November 2013:

<table>
<thead>
<tr>
<th>FTE Staff</th>
<th>Funding</th>
<th>FTE</th>
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<tbody>
<tr>
<td>Academic</td>
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<tr>
<td>Internal</td>
<td>2.5</td>
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<tr>
<td>External</td>
<td>17.1</td>
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<tr>
<td>Total</td>
<td>19.6</td>
<td>24 Level A to E</td>
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<tr>
<td>Professional Research</td>
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<tr>
<td>Internal</td>
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<tr>
<td>External</td>
<td>7.5</td>
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<tr>
<td>Total</td>
<td>8.5</td>
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<tr>
<td>Professional Administration</td>
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<tr>
<td>Internal</td>
<td>0.8</td>
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<tr>
<td>External</td>
<td>8.4</td>
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<tr>
<td>Total</td>
<td>9.2</td>
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<tr>
<td>Total</td>
<td>37.1</td>
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<table>
<thead>
<tr>
<th>HDR enrolments</th>
<th>14 FTE</th>
<th>16 Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Includes extended grant)</td>
<td>(Excludes carry forward $)</td>
<td></td>
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<tr>
<td>Category 1</td>
<td>11 grants</td>
<td>$1,788,116</td>
</tr>
<tr>
<td>Category 2</td>
<td>11 agreements</td>
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</tr>
<tr>
<td>Category 3</td>
<td>12 agreements</td>
<td>$213,601</td>
</tr>
<tr>
<td>Consulting</td>
<td>7 agreements</td>
<td>$38,699</td>
</tr>
</tbody>
</table>

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.
Visit from the Vice-Chancellor

The University of Adelaide’s Vice-Chancellor, Professor Warren Bebbington, visited ARCPOH on 7 February 2013 to deliver a presentation and facilitate discussion on the University’s ‘Beacon of Enlightenment’ Strategic Plan for 2013—2023.

Professor Bebbington reflected on the founding vision of the University—to produce young educated leaders in a democratic and progressive environment. He then directed his focus to the major goals and intentions of the University moving through the next decade and the strategies that will be employed to achieve these aims.

The ‘Beacon of Enlightenment’ strategies include:

**Learning strategies:**

New discoveries in undergraduate courses, small group learning sessions, ensure graduates attain the required skills for employment in their sector, greatly increase e-learning and increase the flexibility of the learning environment.

**Research Strategies:**

Respond to societal priorities in an interdisciplinary manner, develop research partnerships, recruit ten ‘star’ research professors with high citation rates, double PhD research scholarships, ensure star researchers present to students and address global university rankings.

**International Strategies:**

Launching five international research networks, increase study abroad and work-based experience programs and introduce an international student host program. To deliver the plan there will be: an increase in scholarships for the disadvantaged, major philanthropic appeals, a rebranding of the university, innovation in budget management and the engagement of government, business and the community to create a network of stakeholders in research programs.

This strategic plan will ‘recapture the vision’ of the University of Adelaide’s founders and deliver world class education and research in an engaged and progressive environment.
ARCPOH welcomes new staff

The number of ARCPOH staff continued to grow in 2013 with several new appointments:

Administrative staff

Ms Annalisa Agresta, (Administrative Officer) provides administrative support to research staff working under projects of the Centre for Research Excellence in Primary Oral Health Care. Annalisa’s administrative experience is varied as she has worked in finance, as a personal assistant and in marketing at the University of South Australia. She has also worked as an Assistant Human Resource Consultant with TAFE SA.

Ms Rose Thomas (Administrative Officer) works on administrative aspects of the National Child Oral Health Survey (NCOHS) and the Queensland Child Oral Health Survey (QCOHS). Rose has extensive administrative experience and has worked in a number of administrative roles in the Construction and Education industries over the past 15 years. Rose has a Certificate II in Office/Clerical.

Research Staff

Ms Reshika Chand (Research Officer) works primarily with the Indigenous Oral Health Unit for the Baby Teeth Talk Study. She is also concentrating on completing her Honours which looks at the impact of self-rated oral health in Indigenous Australians. Reshika graduated with a Bachelor of Health Science majoring in health promotion and population health from The University of Queensland. She is interested in health inequalities within minority populations and the social determinants of health.

Dr Zahra Ghorbani (Research Associate) is currently working on ‘Trends in oral health inequalities’ and ‘Life course approach to dental diseases’. Her areas of interest are social determinants of oral health and studying inequalities in oral health and dental care utilisation. Zahra completed her Bachelor of Dentistry and PhD in Public Dental Health at the Shahid Beheshti University of Medical Sciences (SBMU), a leading university in Iran. She has also been involved in teaching and research in the community oral health field at SBMU as an Assistant Professor. She has designed and implemented a telephone survey in Tehran, Iran to study the socioeconomic inequalities in oral health among adults.

Ms Ching Wong (Research Officer) is involved with several ARCPOH projects: ‘Study of mothers’ and infants’ life events affecting oral health’; ‘Intergenerational change in oral health in Australia’; and ‘Silver fluoride study’. Ching completed her Honours degree in the School of Paediatrics at the University of Adelaide. She is a second year Masters student (Biostatistics) and is concentrating her studies in Epidemiology and Statistics.

Dr Dominic Keuskamp (Research Associate) is employed for two projects under the CRE in Primary Oral Health Care: ‘Successful ageing and oral health’ and the ‘Oral health of people with physical and intellectual disabilities’. He joins us from Flinders University’s Southgate Institute for Health, Society & Equity, where he worked as a Research Fellow for the NHMRC-funded project ‘Changing patterns of work: Impacts on physical and mental health and the mediating role of resiliency and social capital’. His research interests include the impact of work and employment on mental and physical health, the role played by psychosocial factors as mediators, and the underpinning social determinants of health. His most recent publications have focussed on the incidence of bullying, the relationships between casual employment and health, the interplay of agency and structure in the health of casual workers, and the experiences of life outside the workforce for baby boomers.

Ms Carmen Koster (Research Officer) joined ARCPOH in January 2013 and is currently involved with the National Child Oral Health Survey (NCOHS). Previously, Carmen gained knowledge of dental research while working at ARCPOH from 2002 to 2007 when she was involved with the Child Fluoride Study and National Survey of Adult Oral Health. Carmen holds a degree in Social Science (Research Methods and Statistics) which she completed in the former West Germany. After working for the University of Wuppertal and University of Essen, Carmen migrated to Australia in 1994. She has over 20 years of research experience predominantly within various state government departments and the University of Adelaide. Carmen is the co-author of several publications in the field of dental and health research. Carmen’s experience and knowledge is with data management and statistical analysis and project planning/management, particularly in the area of social and health sciences.
HDR Student Updates

Sofia Christofis

Thesis title: Time trend inequalities in tooth loss among Australian adults: a multilevel approach

Sofia Christofis joined ARCPOH in September 2013, embarking on a PhD. Sofia graduated from the University of Melbourne with Honours in Biochemistry in 1986, and a Bachelor of Dental Science in 1989. She has worked predominantly as a private dentist, with a particular interest in behaviour management having completed a Diploma in Clinical Hypnosis from the Australian Society of Hypnosis. In 2010, she completed the primaries for the general stream of the Royal College of Australasian Dental Surgeons. In addition to being a dentist, she also has a long standing ambition to pursue research and complete a PhD.

The experience of tooth loss in Australia has fallen over the last couple of decades. Tooth loss, a marker of general and dental health, is affected not only by an individual’s characteristics and behaviour, but also by their geographic and socioeconomic environment. The first aim of Sofia’s study is to examine the individual and contextual level factors of tooth loss so as to determine their relative contributions. The second aim is to investigate how these relative contributions to tooth loss have changed over time. Techniques of time-trend and multilevel analyses will be used to analyse information from the National Dental Telephone Interview Surveys from 1994 to 2013.

Her supervisors are Associate Professor Karen Peres, Dr Liana Luzzi and Dr Jane Harford.

Kamal Hanna

Thesis title: The impact of patient-centred dental Open Educational Resources (OER) on enhancing shared clinical decision-making in dental practice

The utilization of the internet in patient education is an effective way of improving healthcare knowledge. Open Educational Resources (OER) are digitised materials that offer an open and flexible learning opportunity. OER are either open access or open content. Dental OER consist of freely accessible information that is available on websites of dental clinics, professional associations, affiliated universities and hospitals. Open content dental OER allows growth of content by collaboration. It includes, but is not limited to, wiki, blogs, podcasts and other social media web applications.

Clinical decision making involves dentist–patient interaction, communication and exchange of knowledge. Treatment outcomes are improved when patients are more involved in the decision-making process. It is argued in this research that, dental OER guided patients have deeper knowledge and more control over their own health condition than unguided patients. Moreover, this research will evaluate the impact of dental OER on enhancing patient engagement in: the process of shared clinical decision making, satisfaction, confidence and improvement in quality of life.

Evaluation will be carried out via a controlled clinical trial. Data will be collected through a questionnaire and semi-structured interview. This research will contribute to Patient Education Theory and fills in the gap in knowledge regarding the applicability of using patient-centered OER in dental patient education.
National Oral Health Promotion Clearinghouse Workshop

Oral and General Health Promotion – An Integrated Approach

On 16 June 2013, the National Oral Health Promotion Clearinghouse organised a pre-conference workshop alongside the Australian Health Promotion Association (AHPA) Conference in Sydney, Australia. This was the second workshop organised by the Clearinghouse.

In 2009, the National Oral Health Promotion Clearinghouse convened a workshop to bring out by consensus the key oral health promotion messages for Australia. The result of the workshop which was represented by researchers, oral health practitioners, government representatives and policy makers, was the development of 11 key oral health messages for the Australian public which was widely disseminated through different channels.

The 2013 clearinghouse workshop was a one-day workshop on the integration of oral and general health promotion. This was in response to the need for collaboration and dialogue on general and oral health promotion activities as noted in the National Oral Health Plan 2004–2013 and also the Australian National Preventive Health Agency’s strategic plan 2010–2015.

The first half of the day saw presentations on the need for an integrated approach, the relationship between oral and general health and some existing models of integrated health promotion activities from across the country. The latter half of the day was more interactive with discussions on the challenges, barriers and opportunities for integrated health promotion activities. The full schedule is attached below. There were about 40 participants in attendance at the workshop.

The aims of this workshop were to:

- bring together general and oral health promotion practitioners from across Australia in a common place to discuss current programs of integrated health promotion and create opportunities for increased integrated programs in the future.
- increase networking and collaboration among oral and general health promoters in order to promote a culture of consultative and co-ordinated health promotion strategies and reduce duplication of efforts.

Sydney Convention and Exhibition Centre

<table>
<thead>
<tr>
<th>Morning Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arrival/Registration</td>
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<tr>
<td>Welcome Professor Kaye Roberts-Thomson</td>
</tr>
<tr>
<td>Common risk factor approach Professor Anthony Blinkhorn</td>
</tr>
<tr>
<td>Relationship between oral and general health – clinical Dr Leonard Crocombe</td>
</tr>
<tr>
<td>Relationship between oral and general health – social determinants Professor Clive Wright</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Afternoon Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models of successful integrated programs:</td>
</tr>
<tr>
<td>&gt; Crunch &amp; Sip (SA) Christine Morris</td>
</tr>
<tr>
<td>&gt; Lift the Lip – Nurses Response (SA) Dr Kelly Jones</td>
</tr>
<tr>
<td>&gt; Smiles 4 Miles (Vic) Adina Heilbrunn</td>
</tr>
<tr>
<td>&gt; NEAMI (Vic) Professor Julie Satur</td>
</tr>
<tr>
<td>&gt; Healthy Smiles – Oral Health &amp; Fluoride Varnish Program (NT) Alana Booth</td>
</tr>
<tr>
<td>Opportunities for integration Dr John Rogers, Professor Julie Satur, Ms Christine Morris</td>
</tr>
<tr>
<td>Group Discussions:</td>
</tr>
<tr>
<td>&gt; Sustainability</td>
</tr>
<tr>
<td>&gt; Common risk factors</td>
</tr>
<tr>
<td>&gt; Getting out of silos/ barriers</td>
</tr>
<tr>
<td>&gt; Resources</td>
</tr>
<tr>
<td>Panel Discussion Dr John Rogers, Professor Anthony Blinkhorn, Claire Phelan</td>
</tr>
</tbody>
</table>
Research Activity

Oral Health Practice Activity Study

The ARCPOH Oral Health Practice Activity Study aims to capture a detailed picture of the services provided by oral health practitioners. There have been earlier studies on the practice activity of dental hygienists and some limited work on dental therapists practice in the public sector. However, this is ARCPOH’s first study to collectively quantify and compare the practice activity of hygienists, therapists and the emerging oral health therapist labour force. The education, scope of practice and registration of these dental practitioner groups has changed considerably in recent years. Consequently, these groups have gained increased policy attention.

While it is known that there are marked differences between these groups in terms of hours worked and employment across types of practices, current data on patterns of service provision and patient demographics is very limited. The study will also explore job satisfaction and associations between satisfaction and practice activity.

The collection of data commenced in late February 2013. The project has strong support from the both the Dental Hygienists’ Association of Australian Inc. and the Australian Dental and Oral Health Therapists’ Association.

The project, led by Associate Professor Brennan, is being conducted in collaboration with The University of Melbourne’s Dental School and Associate Professor Julie Satur. The project is funded by the NHMRC Centres of Research Excellence in Health Services Research grant.

National Dental Telephone Interview Survey

The Dental Statistics and Research Unit (DSRU) conducted the 2013 National Dental Telephone Interview Survey (NDTIS) of a general population sample to obtain up-to-date data on access to dental care, self-assessed oral health status, present oral health treatment needs, use of dental services and preventive behaviours, satisfaction with dental services, cost of dental care and oral health-related quality of life.

The primary sampling frame used for the survey was an electronic product called ‘Australia on Disk Residential, 2012 edition’ supplied by United Directory Systems. This product is an Australia-wide information database which provides access to the names, addresses and phone numbers (including landline and mobile phone numbers) of residential households listed in the White Pages. Records on this frame were stratified into state/territory by capital city/rest of state strata and a sample of households was selected from each stratum (this sample is referred to as the EWP sample).

Up to six calls, spaced over different times of the day and different days of the week, were made to contact each household in the EWP sample. Upon contact, one adult was randomly selected from the household based on the birthdays of adult household members. Where required, a further six attempts were made to interview the selected adult. If children aged 5–17 years lived in the household one child was also randomly selected based on the birthdays of child household members. Interviews about the child were conducted with an adult nominated from each household. Proxy adult interviews were also conducted for selected adults who were unable to participate in the telephone interview due to health problems or language barriers.

Due to the changing nature of phone ownership in Australia which has led to a decline in the number of households listed in the electronic white pages (particularly among households with young adults), a sample of randomly generated mobile phone numbers was included in the survey. These numbers were generated by Sampleworx, a NSW company who provide this service to government organisations and market research companies (this sample is referred to as the mobile sample). The person interviewed in this sample was the regular user of the mobile phone provided they were aged 18 years and over. To select a sample of children, the mobile phone user was asked if any children aged 5–17 years lived in their household. One child was then randomly selected based on the birthdays of child household members. The follow-up procedures to obtain an interview were identical to those used in the EWP sample.

The target number of interviews was 8,000 (adults = 6,600; 5–17 year-olds = 1,400). Data from both the EWP and mobile samples was combined resulting in 6,348 completed adult interviews and 1,615 completed child interviews (see Table 1).

Table 1: Number of completed interviews

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<th>EWP Sample</th>
<th>Mobile Sample</th>
<th>Total</th>
<th>Target</th>
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<tr>
<td>Adults 18+ years</td>
<td>5,479</td>
<td>869</td>
<td>6,348</td>
<td>6,600</td>
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<tr>
<td>Children 5–17 years</td>
<td>1,458</td>
<td>157</td>
<td>1,615</td>
<td>1,400</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>6,937</strong></td>
<td><strong>1,026</strong></td>
<td><strong>7,963</strong></td>
<td><strong>8,000</strong></td>
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</table>
Publications

AIHW Dental Statistics and Research Series (internet only)


AIHW Working Paper


ARCPHOH Published Papers

Data Watch


Journal Articles


Accepted for Publication


Boing AC, Peres KG, Boing AF, Hallal PC, Silva NN and Peres MA. Health survey EpiFloripa: methodological details behind the scenes. Brazilian J Epidemiol.


Brennan DS and Spencer AJ. Childhood oral health and SES predictors of caries in 30-year-olds. Caries Res.

Brennan DS and Spencer AJ. Dental visiting history between ages 13 and 30 years and oral health-related impact. Community Dent Oral Epidemiol.

Conceição MBM, Boing AF and Peres KG. Time trends in mortality from prostate cancer according to Brazilian regions: analysis of three decades. Cad Saúde Pública.

Constante HM, Schroeder FC, Bastos JL, Peres MA. Epidemiology of dental pain in Brazil. Pro-Odontol Prevenção.

Dei Duca GF; Silva Das, Nahas MV, Hallai 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. Cad Saúde Pública.


Figueiredo DR, Peres MA, Luchi CA and Peres KG. Chewing difficulty associated factors among adults in Southern Brazil. Rev Saúde Pública.

Gardner SP and Roberts-Thomson KF. The effect of a change in selection procedures on students’ motivation to study dentistry. Aust Dent J.


Luca GF, Nahas MV, de Souza TF, Mota J, Hallal PC and Peres KG. Clustering of physical inactivity in different domains among adults living in Florianópolis, Brazil. Public Health Reports.


Mejia GC, Armfield JM and Jamieson LM. Self-rated oral health and oral health inequalities. Aust Dent J.


Peres KG, Peres MA, Demarco FF, Gigante D, Horta BL, Menezes AB, Hallal PC, Matijasevich A, Santos A and Barros AJ. The oral health studies in the Pelotas birth cohort studies, RS, Brazil. Brazilian J Epidemiol.

Submitted for Publication


Armfield JM, Mohan H, Luzzi L, Chrisopoulos S. Dental anxiety screening practices and training needs of Australian dentists. Aust Dent J.


Gardner SP, Roberts-Thomson KF, Winning TA and Peterson R. Intrinsic rewards experienced by a group of dentists working with underserved populations. Aust Dent J.


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


Jones K. An evaluation of the discriminant and predictive validity of relative social disadvantage as screening criteria for priority access to public general dental care, in Australia. BMC Health Serv Res.

Ju X, Brennan DS and Spencer AH. Age, period and cohort analysis of patient visits supplied by practising dentists in Australia. BMC Health Serv Res.


Shin BM, Ryu J, Sheihan, A, Do LG, Jung SH. Is the association between socioeconomic position and periodontal health explained more by the Critical Period or the Social Mobility life course model? Community Dent Oral Epidemiol.


Torrianni DD, Ferro RL, Peres KG, Bonow MLM, Santos IS, Matijasevich A, Barros AJD and Demarco FF. Dental caries is associated with dental fear in childhood: findings from a birth cohort study. Caries Res.

### Publications

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† Most publications in ‘leading journals’ in the discipline with low Impact Factors and rated A or B by ERA.
Presentations

91st General Session and Exhibition of the International Association for Dental Research (IADR), 20–23 March 2013, Seattle, Washington, USA
Preventive effect of access to fluoridated water for young adults. Armfield JM.
Natural history of dental fluorosis in a longitudinal cohort study. Do LG* and Spencer AJ.
Challenges in Indigenous oral health research policy translation: Australia. Hedges J.
Development of the stages of change in oral health model. Jamieson LM*, Parker E, Roberts-Thomson KF.
Broughton JR and Lawrence HP
Suitability of periodontal disease case definitions for longitudinal data.
Ju X*, Do LG and Spencer AJ.
Oral health-related behaviours of women pregnant with Indigenous Australian children (poster). Merrick J*, Parker EJ, Roberts-Thomson KF, Broughton J, Lawrence HP and Jamieson LM.
Challenges in developing dental studies nested in multidisciplinary cohort studies. Peres MA*, Peres K and Demarco FF.
Contextual and individual socioeconomic indicators on tooth loss in adults: findings from a population-based study in Brazil. Barbato PR Sr, Peres K*, Hofelfnann D and Peres M.
Self-reported psychological measures and social impact of oral health. Roberts-Thomson KF* and Do LG.
Uncertainty still exists on the degree to which fluoridated water prevents dental caries in adulthood. Spencer AJ*, Liu P, Do L and Armfield JM.
SES gradient in dental behaviors among elders over eleven years. Tan H*, Spencer AJ and Roberts Thomson KF.

Session title: Community Based Health Care in a Post-Reform era
Dental Care. Harford J.
12th National Rural Health Conference, 10 April 2013, Adelaide Convention Centre, Adelaide, South Australia
Update on evidence relating to population oral health. Crocombe L.
5th International Course on Epidemiology of Dental Caries, 15–26 April 2013, Hangzhou, China
Do oral behaviours and dental care mediate disadvantage life course family income trajectory on adolescents gingival bleeding? Peres K.
Vitamin-D deficiency during pregnancy and hospitalized respiratory syncytial virus infection in offsprings: A nested case-control study. Peres K.
Special Care Dentistry Meeting, 18–21 April 2013, New Orleans, USA
Application of atraumatic restorative technique (ART) in special needs patients: Dental management of a patient with Moebius syndrome (poster). Pradhan A.
Medical Dental Selection Forum, 16–17 May 2013, Flinders University City Campus, Adelaide, South Australia
Dentists’ motivation to work with underserved groups and undergraduates desire ‘to help’. Gardner SP*, Roberts-Thomson KF, Winning TA and Peterson R.
Aged care – practical tips. Pradhan A.
Journées dentaires internationales du Québec, 24–28 May 2013, Montreal, Canada
Dental fear: characteristics, consequences, causes and treatment. Armfield JM.

Health Promotion Association Australia – Pre Workshop Conference, 16 June 2013, Sydney, New South Wales, Australia
Lift the Lip – Integrating an oral health screening into a pre-school health promotion program. Jones K.
10th Annual Research Day, School of Dentistry, Faculty of Health Sciences, University of Adelaide, 16 August 2013, National Wine Centre of Australia, Adelaide, South Australia
Self-rated oral health among two rural communities in South India. Bhat M.
Research Overview: CRE in Health Services Research. Brennan DS.
Frames of reference used by Indigenous Australians when rating oral health and associations between self rated oral health. Chaud R.
Development of a socio-economic status index to interpret inequalities in oral health in developing countries. Ghorbani Z.
Associations between extent of periodontal pocketing and cardiovascular surrogate markers among Indigenous Australians living in the Northern Territory, Australia. Kapellas K*, Do LG, Skilton M, Bartold PM and Jamieson L.
Socioeconomic conditions, lifestyle factors and oral cancer. Krishna Rao SV.
Life course oral epidemiology. Peres MA.
2nd Meeting of the International Association for Dental Research (IADR) Asia Pacific Region (APR) Meeting, 21–23 August 2013, Plaza Atheneé, Bangkok, Thailand
Topic 1: Sampling strategies in population oral health research – the ARCPOH experience. Chrisopoulos S.
Topic 2: Cohort studies or life course oral epidemiology? Peres M.
Topic 3: Application of generic health state measures to oral health studies. Brennan D.
Topic 4: Quantitative bias analysis in oral health research. Mejia G.
Factors associated with self-rated oral health in rural South India. Bhat M*, Do LG and Roberts-Thomson KF.

Changing insurance coverage and inequalities in access to dental care. Harford J.

Socioeconomic conditions, life-style factors and oral cancer – a case-control study. Krishna Rao SV*, Mejia GC, Roberts-Thomson KF and Logan R.

Content analysis of oral health messages in Australian mass media (poster). Jones K*, Merrick J and Beasley C.

Chewing impairment associated factors among adults in Southern Brazil. Peres KG*, Figueiredo DDR and Peres MA.

Determinants of oral health of school children in the state of New South Wales, Australia. Sivaneswaran S*, Buyin R and Do LG.

IADR, ANZ division poster competition
Factors associated with self-rated oral health in rural South India (poster). Bhat M*, Do LG and Roberts-Thomson KF.

7th Annual Faculty of Health Sciences Postgraduate Research Conference, 29 August 2013, National Wine Centre of Australia, Adelaide, South Australia
The ‘global interconnectedness’ of the dental profession: a case study of overseas-qualified dentists in Australia (poster). Balasubramanian M.

Public Health Association of Australia (PHAA), 15–17 September 2013, Melbourne, Victoria, Australia
Accuracy of nurse assessment for oral care in community pre-school settings. Jones K.

Australasian Epidemiological Association (AEA), Annual Scientific Meeting ‘Life Course Approach to Health and Wellbeing’, 20–22 October 2013, Brisbane, Queensland, Australia
Time trend of socioeconomic inequality in inadequate dentition in Australian adults. Do L.

A mixed model approach to data from WA Dental Health Service. Liu P*, Arrow P and Roberts-Thomson KF.

Can we use body height as a dental caries predictor? Findings from two population-based birth cohorts. Peres K.

Do behaviors mediate the relationship between income trajectory and gingival bleeding? A cohort study. Peres MA*, Peres KG, Demarco FF, Assunção MC and Menezes AB.

10th International Association for Dental Research (IADR) World Congress on Preventive Dentistry, 9–12 October 2013, Budapest, Hungary
Water fluoridation and time trend of caries in deciduous dentition (poster). Ha D*, Roberts-Thomson KF, Spencer AJ and Do LG.

Long-term impact of preventive intervention on children’s dental visits (poster). Plutzer K* and Spencer AJ.

Oral health promotion in Indigenous populations: the Australian Aboriginal experience (symposium). Roberts-Thomson KF.

46th National Conference of Australian Association of Gerontology, 27–29 November 2013, Sydney
Changes in oral hygiene and care among residential care residents. Tan H*, Luzzi L, Spencer AJ and Carter KD.

Centre for Education and Research Ageing / NSW Health Centre for Oral Health Strategy, How do Mid life Decisions Impact on Oral Health in Later Life?, 29 November 2013, Concord Medical Education Centre, Concord General Repatriation Hospital Centre, Concord, New South Wales, Australia
Oral health and general health among elderly. Tan H.

8th Health Services and Policy Research Conference, 2–4 December 2013, Wellington, New Zealand
Collection of individual dental expenditure data: a comparison of three different methods. Teusner DN* and Brennan DS.


* presenter