# ARCPOH

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

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

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

For oral health to make a stronger contribution to public health in Australia, improved information and understanding of oral health and dental care is needed as a prerequisite for the development and implementation of informed public health policy.
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); Pelotas Federal University, Santa Catarina Federal University, and University of São Paulo (Brazil); Department of Epidemiology and Public Health, The University College London; major health agencies such as the Australian Institute of Health and Welfare (AIHW), the Australian Government Department of Health (AGDH), the South Australian Department of Health (SADH) and the South Australian Dental Service (SADS); and commercial entities including Colgate Oral Care.

Internal collaborators

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

Faculty of Health Sciences (FHS)
> School of Public Health
> Centre for Traumatic Stress Studies
> School of Medicine

External collaborators

Universities
> Melbourne, Sydney, Tasmania, Western Australia, Monash, Deakin, Otago, North Carolina, Menzies School for Health Research, Pelotas Federal University, Santa Catarina Federal University, Sao Paulo, University College London

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)
ARCPHO Management

Across the last 11 years, ARCPHO has had a team approach to its management. In 2015, ARCPHO’s Executive Committee consisted of Unit Directors and academic staff Level D and Level E.

> Professor Marco Peres (Director, ARCPHO)
> Dr Liana Luzzi (Director, AIHW DSRU, Deputy Director, ARCPHO)
> Professor David Brennan (Director, HSRU)
> Associate Professor Lisa Jamieson (Director, IOHU)
> Associate Professor Karen Peres (Director, DPERU)
> Dr Jane Harford (Director, Clearinghouse)
> Associate Professor Jason Armfield
> Associate Professor Loc Do

Professor Marco A Peres

Director, ARCPHO
Professor of Population Oral Health

Marco Peres joined ARCPHO in 2012 as Professor of Population Oral Health and is Director of the Australian Research Centre for Population Oral Health. Marco is a qualified dentist with a background in population oral health and epidemiology. Marco’s research areas include life course epidemiology, inequalities in oral health and surveillance in oral health. He is involved in four population-based birth cohort studies in Brazil and in Australia, and one population-based cohort study in Brazil. Marco is the coordinator of the 2016–2018 National Study of Adult Oral Health and a member of the Global Burden of Metabolic Risk Factors for Chronic Diseases Collaboration, the Deputy Chair of the Expert Working Group for Fluoride of the Australian and New Zealand Nutrient Reference Values for Fluoride, and a member of the Oral Health Expert Group of the Australian Burden of Diseases 2011 Study.

Dr Liana Luzzi

Deputy Director, ARCPHO
Director, AIHW DSRU
Senior Research Fellow

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

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

**Associate Professor Lisa M Jamieson**  
Director, IOHU  
Principal Research Fellow  
Lisa Jamieson BDS, MComDent, PhD, has a keen interest in oral health research of Indigenous populations, both in Australia and internationally. In 2011 Lisa was involved in establishing the University of Adelaide’s Indigenous Oral Health Unit (IOHU) which is embedded within ARCPHO. 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 ARCPHO 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 ARCPHO 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**  
Director, DPERU  
Principal Research Fellow  
Karen is a dentist and worked as a paediatric dental practitioner in Brazil from 1985 to 2006. She received her Masters in Paediatric Dentistry from Federal University of Santa Catarina (UFSC) and also in Public Health from University of Sao Paulo, Brazil. She has a PhD in Public Health (Epidemiology) from the University of Sao Paulo, Brazil. Karen’s main research interests are in the epidemiology of oral diseases, particularly in social inequality in oral health and life course. She worked as one of the coordinators for the National Oral Health Survey carried out in 2010, Brazil. Karen has been involved in oral health studies nested in the Pelotas (Brazil) birth cohort studies. Together with Professor Marco Peres and Flavio Demarco, Karen coordinated the oral health studies of three Pelotas birth cohort studies starting in 1982, 1993 and 2004. She is also involved in other large cohort studies in Florianopolis, Brazil, the EPIFLORIPA study, a cohort of adults.

**Dr Jane Harford**  
Director, Clearinghouse  
Senior Lecturer  
Dr Jane Harford joined the Australian Research Centre for Population Oral Health (ARCPOH) at the University of Adelaide in early 2003. She has a background in public health, health policy and health economics. Her research interests include the impact of population ageing on oral public health and on the provision of oral health care, strengthening a public health/primary care approach to oral health, the impact of various funding arrangements including government subsidies on oral health service delivery and status, and the role of food policy in oral health. Her roles at the Australian Research Centre for Population Oral Health include work on the Intergenerational Change in Oral Health project, examining changes in oral health of older South Australians and co-ordinating ARCPOH’s contribution to the revised Bachelor of Dental Surgery undergraduate program and the Master of Public Health Program. In 2015, Jane was Director of the National Oral Health Promotion Clearinghouse.
Governance

In formal terms ARCPOH is organisationally a component of the University of Adelaide. Its Director, like the heads of departments, other centres and academic units in the University, is responsible through the Dean of the School of Dentistry and Executive Dean of the Faculty of Health Sciences (FHS) to the Vice-Chancellor and Council. The four component units of ARCPOH are also responsible to their respective stakeholders. Through the Director of the Dental Practice Education Research Unit (DPERU) there is a responsibility to Colgate-Palmolive Australia, and through the Director of the Australian Institute of Health and Welfare’s Dental Statistics and Research Unit (AIHW DSRU) there is a responsibility to the Director and Board of AIHW. The National Oral Health Promotion Clearinghouse (NOHPC) is also located within ARCPOH. The Clearinghouse has a separate Advisory Committee. It has a responsibility to state/territory dental authorities and the Monitoring Group for Australia’s National Oral Health Plan (NOHP) which reports to the Australian Health Ministers’ Advisory Council (AHMAC) via the Australian Population Health Development Principal Committee (APHDPC). The Indigenous Oral Health Unit (IOHU) was formally established within ARCPOH in December 2011.

The Unit is governed by an Advisory Committee comprising representatives of several aboriginal organisations. The Health Services Research Unit consists of two CRE’s (Centre of Research Excellence) – a CRE in Primary Oral Health and a CRE in Health Services Research. However, ARCPOH is intended to play an important national role, and the University therefore is guided in its management by an Expert Advisory Committee that has the best possible appreciation of the state of population oral health research and major public policy issues that might be informed by that research.

ARCPOH governance

Australian Research Centre for Population Oral Health (ARCPOH)
ARCPOH Expert Advisory Committee

Functions

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

> the important research questions in population oral health that could beneficially be addressed by ARCPOH, and the relative priority of those issues

> the formulation and regular updating of an appropriate strategic plan for the research program of ARCPOH

> operational planning for the research program of ARCPOH that encompasses collaboration and cooperation between relevant organisations, and the avenues through which resources can be found to support the program

> the means by which the outcomes of the centre’s research can be disseminated to inform public policy and professional practice

> the development and enhancement of the centre’s postgraduate research training activities, within the research program.

Membership

> Vice-Chancellor of the University of Adelaide or nominee (convener) (Prof. Lindsay Richards, Dean, School of Dentistry)

> Director of the Australian Institute of Health and Welfare or nominee (Dr Adrian Webster/Ms Jenny Hargreaves)

> Nominee of the Australian Government Department of Health (Ms Margaret Noris)

> Nominee of Colgate Oral Care, Colgate-Palmolive Australia (Dr Susan Cartwright)

> Nominee of the South Australian Department of Health (Dr Ron Somers/Dr Katina D’Onise)

> Nominee of State and Territory Dental Services (Dr Geoff Franklin)

> Nominee of the Universities of Melbourne and/or Otago (Prof. Murray Thomson)

> Nominee of the University of Adelaide, Discipline of Public Health (Prof. Annette Braunack-Mayer/A/Prof. Caroline Laurence)

> 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/Dr Mark Hutton (ADA)

> Prof. Mike Morgan (University of Melbourne)

> Prof. Anthony Harris (Monash University)

> Prof. John Lynch (University of Adelaide)

> Director, ARCPOH (Prof. Marco Peres)

> Deputy Director, ARCPOH, Director, AIHW DSRU (Dr Liana Luzzi)

> Director, Clearinghouse (Dr Jane Harford)

> Director, DPERU (Assoc. Prof. Karen Peres)

> Director, HSRU (Prof. David Brennan)

> Director, Indigenous Oral Health Unit (IOHU) (Assoc. Prof. Lisa Jamieson)

> ARCPOH Executive Committee members (Assoc. Prof. Jason Armfield, Assoc. Prof. Loc Do)

ARCPOH Expert Advisory Committee

The University of Adelaide

Australian Institute of Health and Welfare

Australian Government Department of Health

Colgate Oral Care

SA Department of Health

State and Territory Dental Services

Universities of Melbourne and/or Otago

The University of Adelaide Discipline of Public Health

Australian Council of Social Service – Community representative

Other experts

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.

Oral health policy analysis

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

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

Oral health promotion data warehouse and information clearinghouse

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

Research program ARCPOH

- Distribution and determinants of oral health
- 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
- AIHW DSRU
- DPERU
- NOHPC
In October, ARCPOH was informed of the following events:

- Professor Lindsay Richards was appointed Dean, School of Dentistry, and took up the position on 18 May 2015. The Executive Dean approved the appointment of Professor Richard Logan as Deputy Head of the School and his three year term commenced on Friday 17 April 2015.

- Professor Kaye Roberts-Thomson’s term as Interim Dean of the School of Dentistry concluded April 2015. Kaye retired from ARCPOH in June 2015 and has taken on the title of Adjunct Professor and continues to be involved in research projects at ARCPOH.

- In July, Dr Jane Hartford was appointed Director of the Oral Health Promotion Clearinghouse, a position previously held by Professor Kaye Roberts-Thomson.

- In July, Associate Professor Karen Peres was appointed Director of the Dental Practice Education and Research Unit (DPERU), a position previously held by Professor Kaye Roberts-Thomson.

- In October, the Faculty of Health Sciences released a draft change proposal as part of its Professional Services Reform (PSR) process, announcing the disestablishment of positions across Dentistry and the wider faculty. ARCPOH was affected by the PSR with the disestablishment of its Executive Officer, Mrs Silvana Marveggio, whose contract will conclude on 31 May 2016.

- In October, ARCPOH was informed of the sudden and unexpected passing of PhD candidate Dr Sofia Christofis. In addition to her role at ARCPOH as a PhD student, Sofia was a valued colleague and a good friend of many in the School. Sofia had a particular interest in advocating for better oral health for all sectors of the community, especially those that are disadvantaged. The focus of her research was on oral health inequalities as affected by individual and contextual factors. As Sofia was so close to completing her PhD, ARCPOH will endeavour to publish the findings from her research.

- A review of ARCPOH was conducted in mid-2015 by independent HR consultant Sue Crawford (Right Turn). The purpose of this review was to look at ARCPOH as a research centre with a focus on team functionality, in order to present an accurate picture of ARCPOH to the School’s new Dean.

The environment

The environment in which ARCPOH operated across 2015 was shaped by the following events:

- In July, Dr Jane Hartford was appointed Director of the Oral Health Promotion Clearinghouse, a position previously held by Professor Kaye Roberts-Thomson.

- In October, the Faculty of Health Sciences released a draft change proposal as part of its Professional Services Reform (PSR) process, announcing the disestablishment of positions across Dentistry and the wider faculty. ARCPOH was affected by the PSR with the disestablishment of its Executive Officer, Mrs Silvana Marveggio, whose contract will conclude on 31 May 2016.

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Highlights

In 2015, there were some notable highlights:

- ARCPOH, in partnership with the Australian Government Department of Health and State/Territory Health Departments and Dental Services, will coordinate the 2016–2018 National Study of Adult Oral Health (NSAOH 2), which marks 10 years since the last national survey of adult oral health (NSAOH 2004–06) was conducted. Support for the study has also been received from the Australian Dental Association and Colgate.

- In 2015, ARCPOH submitted 11 NHMRC Project Grant Applications, 1 Partnership Projects Grant, 6 Fellowship applications, 6 ADRF applications and 1 CRE application. ARCPOH was successful with 2 ADRF grants and 2 Fellowship grants being awarded to individual staff.

- There were two PhD student graduations in 2015. Kostas Kapellas was awarded his PhD titled, ‘Investigation of non surgical periodontal treatment effect on arterial stiffness, a surrogate marker of cardiovascular disease. Sue Gardener was awarded her PhD with a Dean’s commendation for ‘Doctoral Thesis Excellence’. The title of Sue’s thesis was ‘Exploration of dentists characteristics associated with caring for disadvantaged patients, using a mixed-methods approach’.

- The following three ARCPOH PhD students submitted their theses in 2015: Ms Xiangqun Ju, ‘Periodontal disease, tooth loss and daily life in older adults in South Australia: a longitudinal study’ (September), Ms Katie Beckwith ‘The associations between school social environment and child oral health outcomes’ (December), Mr Emmanuel Gnanamanickam, ‘Cost-effectiveness and cost utility of dental health insurance’ (December).

- ARCPOH will host a two-day thematic workshop on 17–18 May 2016 of the National Child Oral Health Survey (NCOHS), 2012–2014 which aims to disseminate findings of this national partnership project to inform policy in the provision of dental service for children in Australia. Participants will be representatives from Commonwealth health authorities, state and territory dental services, professional, industry and consumer organisations and ARCPOH research staff. NCOHS 2012–2014, the first population-based national study of child oral health, has a population-representative sample of 24,664 children aged 5–14 years and a rich data of socioeconomic and behavioural factors, dental health service use and clinical oral health status. The workshop aims to disseminate the study findings and initiate discussion to inform dental health policies targeting Australian children.

- Professor Marco Peres was involved as a group leader discussing the creation of the University of Adelaide Network of Population Health.
Lowlights

In 2015, there were some noticeable lowlights:

> At the end of 2015, ARCPOH was unable to renew five staff contracts due a reduction in revenue and no new major grants or consultancies. Contracts ceased on 31 December for the following staff: Mrs J Aldis (1.0 FTE), Mr T Nguyen (0.8 FTE), Mrs L Trio (0.7 FTE) and Mr P Liu (0.6 FTE). Ms T Liu has been contracted at 0.4 FTE with the School of Dentistry until May 2016. Dr H Tan’s employment fraction was reduced from 1.0 FTE to 0.75 FTE due to the Central Adelaide Local Health Network, via SA Dental Service, no longer being able to support the Geriatric Oral Health position.

> ARCPOH was unable to renew the contract of Dr Rati Lalloo on 31 March 2015. Rati was offered an adjunct appointment as Associate Professor to continue collaborations with ARCPOH.

> Dr Gloria Mejia resigned from her position as Research Fellow and her last day at ARCPOH was 20 February 2015. Gloria accepted a continuing position at East Carolina University in North Carolina. She was offered an adjunct appointment at ARCPOH as Senior Research Fellow.

> Ms Gina Stephens resigned from her position as Research Grants Officer in April 2015. Ms Tina Jackson, Finance Manager, School of Dentistry, provided some financial assistance to ARCPOH two days a week.

New challenges

> Following on from The University of Adelaide being awarded the State Government’s contract to provide its public dental service for the next 30 years, ARCPOH will move from its premises at 122 Frome Street to be once again located with the School of Dentistry. There is some uncertainty regarding physical space. ARCPOH will need to find a suitable space not only for its staff but also a Computer Assisted Telephone Interview suite is needed to conduct two-yearly National Dental Telephone Interview Surveys.

> How to manage ARCPOH’s large number of projects into 2016 after the disestablishment of the Executive Officer position, will present a challenge for ARCPOH.

> The centralisation of Research Infrastructure Block Grant (RIBG) funding presents a challenge for ARCPOH beyond 2015. This funding has previously been used to support professional research support staff salaries as well as fund travel for staff to present research findings at international conferences.

Contractual Research

> Professor Kaye Roberts-Thomson and Associate Professor Karen Peres travelled to Brunei in May to plan the Brunei Oral Health Survey, and again in early August to oversee the training and calibration of dental nurses, dentists and recorders in eight teams. So far, a high participant response rate has been received. It is anticipated that data entry will begin February/March so that preliminary findings are ready in April.

> Emeritus Professor John Spencer was involved in establishing a work plan for consulting services with the Primary Health Care Corporation, Qatar, to fulfill the following two objectives: to evaluate the current epidemiological data and determine the gaps that need to be augmented in order to establish a comprehensive baseline for children’s oral health in Qatar; and to undertake a scientific study to inform policy decisions on tap and bottled water fluoridation in Qatar.

Teaching

Postgraduate coursework

> An intense period of work in 2015 within the School of Population Health has progressed work on the ‘renewed’ Master of Public Health (MPH). The proposed program proposal includes both a practitioner pathway and a research pathway for students wishing to undertake a Population Oral Health specialisation within the MPH. The program proposal will be submitted to the Program Approval and Entry Committee with a view to commence the new arrangements in 2017.

Undergraduate

> Teaching in the School of Dentistry’s two undergraduate programs (Bachelor of Dental Science and Bachelor of Oral Health) continued in 2015. ARCPOH was involved in teaching the following programs:

Bachelor of Dental Science:

~ 1st year: Dental Science and Practice I (Population Health; Evidence Based Practice; Ethics)
~ 2nd year: Dental Science & Practice II (Evidence-based Practice II; Social Context of Dentistry)
~ 3rd year: Health Promotion Project
~ 4th year: Geriatric Dentistry and Social and Community Aspects of Health

N.B. Community Dentistry was not taught in 2015 due to its transition from 5th year to 4th year.

Bachelor of Oral Health:

~ 1st year: Evidence-based Practice I
~ 2nd year: Dental & Health Science II (Fluoride); Evidence-based Practice II; Social Context of Dentistry
~ 3rd year: Dental Public Health; Gerodontology; Research Elective (mentoring)

> In 2015, ARCPOH staff were responsible for supervising 2 new and 11 continuing PhD students; 5 continuing Honours students and 1 DClin Dent student.
Research Units - Work Program

AIHW Dental Statistics and Research Unit

> The AIHW Dental Statistics and Research Unit (AIHW DSRU) is a collaborating unit of the Australian Institute of Health and Welfare and is located within ARCPOH.

> It aims to improve the oral health of Australians through the collection, analysis and reporting of dental statistics and through research on dental health status, dental practices and use of dental services, and the dental labour force.

> In June 2015, the Department of Health revised its funding arrangements so funding was provided directly to ARCPOH/DSRU, rather than through the AIHW. This prompted the AIHW to initiate a review of their oral and dental health work program. An external reviewer was appointed to consult with external stakeholders and seek their views on existing and future data collection and reporting of dental data. These external consultations will include a broad range of organisations involved in producing or using dental data including: Directors of Dental Services in States/Territories; the Australian Dental Association; the Royal Australasian College of Dental Surgeons; the Australasian Council of Dental Schools and a sample of Dental Schools; and other peak advocacy organisations with an interest in dental service delivery and financing. Further discussion about this review are to take place in early 2016.


Dental Practice and Education Research Unit

The Dental Practice Education Research Unit (DPERU) is a joint venture between The University of Adelaide and Colgate Oral Care and it was established in November 1991. Our headquarters are at the Australian Research Centre for Population Oral Health at The University of Adelaide, Australia.

DPERU’s objective is to identify and meet the information needs of dental professionals and also the general public while promoting the provision of preventive services.

The following professional brochures and patient pamphlets were released by DPERU in 2015:

> Caries Risk assessment for children: Special Topic No.10 – professional brochure and patient pamphlet

Updating and redesigning of older pamphlets:

> What is periodontal disease

> Keeping your teeth for life

The following DPERU’s professional brochure and patient pamphlet was in press in 2015:

> Dental Fear and Anxiety: Special Topic No.11 – professional brochure and patient pamphlet

In 2010, Continuing Professional Development (CPD) became compulsory for dental practitioners in Australia. The Dental Board of Australia, which was established in 2010, requires 60 hours of CPD for each practitioner over a three-year period. As DPERU undertakes to provide educational material on topics of interest and importance to dentistry, it seemed a logical step to use these for CPD.

A series of on-line quizzes, based on the DPERU practice information sheets, has been developed for CPD credit points. Quizzes are added to the site as practitioner information sheets on new topics are developed.

In 2015, CPD online quiz on Caries Risk Assessment for Children was added to the DPERU site.

New regulations to the Colgate CPD Online Program came into effect from June 2015. Accordingly, the participants who want to claim for their CPD points for a given quiz must make the relevant payment before applying for the quiz as opposed to the old regulations where the participants had to pay for claiming their CPD points only after passing the quiz. However, under the new regulations the participants can have unlimited attempts for the pre-paid quiz until they pass.
Indigenous Oral Health Unit
Launched in December 2011, the Indigenous Oral Health Unit (IOHU) focuses specifically on the oral health of Aboriginal and Torres Strait Islander people, continuing and expanding on the work already carried out by ARCPOH in this area.

IOHU is concerned with Indigenous oral health, access to dental care, the labour force and provision of dental care to this disadvantaged population. Through research, we seek to achieve improved oral health and better dental care for all Indigenous Australians.

In 2015 the Indigenous Oral Health Unit was involved in:

2. Community consultation and research feedback to Aboriginal communities throughout South Australia regarding continuation of the Baby Teeth Talk study.
3. Continuing PhD students (Eleanor Parker and Megan Rebuli).
5. Completion of Julia Bradshaw and Claudia Lopez as Honours students.
6. 3x NHMRC project grants prepared for 2016 submission.
7. IOHU Director success with NHMRC Senior Research Fellowship (only dental person in Australia to have ever received).

National Oral Health Promotion Clearinghouse
The National Oral Health Promotion Clearinghouse (NOHPC) is a web-based information resource that provides up to date, accurate and comprehensive, evidence based information about oral health promotion research, reviews, practice and resources in Australia and overseas. The Clearinghouse works to support researchers and practitioners in oral health promotion and is also a resource for the general public seeking information on oral health. In 2015:

- Dr Jane Harford became Director of the Clearinghouse from June 2015 when Dr Rati Laloo returned to Queensland.
- Mr Emmanuel Gnanamanickam has undertaken the role of moderator of the Clearinghouse since 2011.
- Continued funding was requested and received from states and territories in 2015.
- The Clearinghouse Advisory Committee met in October 2015. Planning commenced for the next Clearinghouse workshop on the topic: Evidence based oral health promotion.
- The Research study titled, ‘Oral Health Information Seeking Behaviour’ was conducted as part of the NDTIS follow-up questionnaire.
- The Clearinghouse website was successfully migrated to the new University template.
- A work plan for the clearinghouse was developed in consultation with the State and Territory Dental Directors.

Health Services Research Unit
In 2015 the main activities of the Health Services Research Unit (HSRU) centred around:

- A project being undertaken to research medical GP’s assessment of need for dental care where baseline recruitment has been completed and follow-up data collection is underway.
- A project that aims to test an intervention model for carers of adults with physical and intellectual disabilities which has collected data to evaluate knowledge and reported practices of carers in relation to oral hygiene and ability to use dental services using a questionnaire and an oral hygiene assessment of adults with a disability under their care.

- Under the research theme of dental practice performance, a number of data collections are being pursued to inform the research program. These include a primary data collection of information relating to the work effort required to deliver dental services. This includes data on responsibility loading and the components of responsibility underlying these loadings that will enable calculation of relative value units for dental services. There is also a primary data collection of practice activity information from a sample of oral health practitioners drawn from the membership of the respective dental therapist and dental hygienist associations. This project will provide information on this growing component of the dental work force, and enable analysis of the impact of dual-qualified oral health practitioners on dental practice. A survey of dentists has also collected data on practice activity as well as other job related aspects such as job satisfaction.

- The research theme of dental services and health outcomes has been investigated through an investigation of the cost-effectiveness of insurance over a two-year period. In addition, baseline data were collected on private and public use of dental services and oral health.
## Activity Summary

### Distribution and Determinants of Oral Health

<table>
<thead>
<tr>
<th>Study</th>
<th>Description</th>
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<tbody>
<tr>
<td>Adult Dental Programs Survey</td>
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<tr>
<td>A lifecourse epidemiological approach to understanding oral health</td>
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<td>inequalities (NHMRC)</td>
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<tr>
<td>Associations between periodontal disease and cardiovascular surrogate</td>
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<tr>
<td>endpoints in an adult Indigenous population (NHMRC)</td>
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<td>Avoidance and non-avoidance of the dentist</td>
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<td>Brunei Darussalam Child Oral Health Survey</td>
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<td>Caries Initiation Study</td>
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<td>Child Dental Health Survey (CDHS)</td>
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<tr>
<td>Child Fluoride Study Mark II (NHMRC)</td>
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<td>Dental anxiety and past experiences: a qualitative study with</td>
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<td>dentally fearful Australian adults (ADRF)</td>
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<td>Dental fear in patients with Juvenile Idiopathic Arthritis</td>
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<tr>
<td>Development of a dental anxiety scale for adults</td>
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<td>Development of a modular index of children’s dental anxiety</td>
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<td>Exploring factors associated with dental behaviours of carers: oral</td>
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<td>health literacy and psychosocial measures</td>
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<td>Impacts of dental beliefs and behaviours on oral health related</td>
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<tr>
<td>quality of life among middle-aged and older Chinese immigrants in</td>
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<td>Australia (ADRF)</td>
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<td>Impact of early childhood caries on the oral health-related quality</td>
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<td>of life of pre-school children – a population based study (ADRF)</td>
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<td>Impact of oral health on nutrition intake and general health of older</td>
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<td>people – a longitudinal study.</td>
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<td>Intergenerational change in oral health (NHMRC)</td>
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<td>Maternal and perinatal factors associated with Early Childhood</td>
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<td>Caries: mum and child oral health (ADRF &amp; ICD)</td>
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<td>National Child Oral Health Survey (NCOHS)</td>
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<td>National Dental Anxiety and Fear Survey (ADRF)</td>
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<td>Natural history of fluorosis (NHMRC)</td>
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<td>Queensland Child Oral Health Survey (QCOHS)</td>
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<td>Risk indicators for periodontal disease in an urban Aboriginal</td>
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<td>population (NHMRC)</td>
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<td>Screening and Management of Dental Anxiety Survey (ADRF)</td>
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<td>Social determinants and oral health of Australian Indigenous children</td>
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<td>Social gradients in child oral health status and access to services</td>
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<td>Study of Mother and Infant Life Events Affecting Oral Health (NHMRC)</td>
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### Effectiveness of Population Oral Health Interventions

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

<table>
<thead>
<tr>
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<td>A social entrepreneur approach to oral health promotion for older</td>
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<td>people</td>
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<tr>
<td>Building a caries free country for the elderly</td>
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<tr>
<td>Centre of Research Excellence in Health Services Research (NHMRC)</td>
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<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</td>
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<td>workplace choice</td>
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<tr>
<td>Evaluating consensus between oral assessors for BOH applicants to the</td>
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<td>University of Adelaide</td>
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<td>Evaluating profile changes in 1st year BDS/BOH students, Adelaide</td>
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<tr>
<td>Dental School, over 10-year period</td>
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<td>Financial Impact of Dental Services (FIDS)</td>
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<tr>
<td>Health information seeking behaviour study</td>
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<tr>
<td>Impact of insurance on use of dental services and oral health (NHMRC)</td>
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<tr>
<td>Mobility of International Dental Graduates (IDGs) in Australia (ADRF)</td>
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<tr>
<td>National Dental Telephone Interview (NDTIS) and associated activities</td>
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<td>National Survey of Adult Oral Health (NSAOH)</td>
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<td>Preventative maintenance program in Community Dental Services (CDS)</td>
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<td>– adult recall (SADS contract)</td>
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<tr>
<td>Study of private subsidisation of dental care in Australia (SOPS) (ADRF)</td>
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<td>The impact of declining tooth loss on oral health status and dental</td>
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<td>care utilisation (NHMRC)</td>
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<td>The Longitudinal Study of Dentists’ Practice Activity</td>
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</tbody>
</table>
Oral Health Policy Analysis

Oral health messages in the Australian mass media: a content analysis (ADRF)
Policy analysis
The social construction of oral health in Australia
Willingness-to-pay for public dental services

Oral Health Promotion Data Warehouse and Information Clearinghouse
National Oral Health Promotion Clearinghouse (NOHPC)

Centre of Clinical Research Excellence (CCRE)
CCRE for Oral Health

Staff list

<table>
<thead>
<tr>
<th>Category</th>
<th>Names</th>
</tr>
</thead>
</table>
| Professor                         | Professor Marco Peres  
                                      Professor David Brennan                                                 |
| Emeritus Professor                | Emeritus Professor A John Spencer                                     |
| Associate Professors / Principal Research Fellows | Associate Professor Jason Armfield  
                                      Associate Professor Loc Do                                                 |
| Adjunct staff                     | Professor Kaye Roberts-Thomson  
                                      Dr Gloria Mejia  
                                      Dr Rati Laloo  
                                      Dr Peter Arrow                                                           |
| Senior Research Fellows           | Dr Len Crocombe  
                                      Dr Liana Luzzi                                                            |
| Research Fellows                  | Dr Najith Amarasena  
                                      Dr Diep Ha                                                                |
| Senior Lecturers                  | Dr Jane Harford  
                                      Dr Haiping Tan                                                            |
| Research Associates               | Mr Madhan Balasubramanian  
                                      Mr Sergio Chrisopoulos                                                    |
|                                   | Ms Xiangqun Ju  
                                      Ms Saima Islam  
                                      Dr Dominic Keuskamp                                                       |
|                                   | Dr Kostas Kapellas  
                                      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                                                          |
|                                   | Ms Katrina Plastow                                                      |
| Research Officers                 | Ms Jacqueline Aldis  
                                      Ms Katie Beckwith  
                                      Ms Anne Ellershaw                                                          |
|                                   | Mr Emmanuel Gnanamanickam  
                                      Ms Adyaa Gupta  
                                      Ms Joanne Hedges  
                                      Ms Carmen Koster                                                          |
|                                   | Ms Helen Mills  
                                      Ms Leanne Trio                                                            |
| Administrative Staff              | Ms Nikki Dodds  
                                      Mrs Beverly Ellis  
                                      Ms Sarah Harman                                                            |
|                                   | Mrs Silvana Marveggio  
                                      Ms Thanh Nguyen  
                                      Ms Gemma Pilkington                                                       |
|                                   | Ms Teresa Phung  
                                      Ms Rose Thomas  
                                      Ms Ali White                                                               |
Staffing Summary

New appointments:
> X Ju (Research Associate)

Resignations and ceased contracts
> Gloria Mejia (1.0 FTE) resignation February 2015
> Ms Gina Stephens (0.6 FTE) resignation April 2015
> Rati Laloo (1.0 FTE) contract ended 31 March 2015
> Ms Jacqui Aldis (1.0 FTE) contract ended 31 December 2015
> Ms Katie Beckwith (0.2 FTE) contract ended 31 December 2015
> Ms Thanh Nguyen (1.0 FTE) contract ended 31 December 2015
> Mr Pingzhou Liu (0.6 FTE) contract ended 31 December 2015
> Ms Thanh Nguyen (1.0 FTE) contract ended 31 December 2015
> Mrs Leanne Trio (0.7 FTE) contracted ended 31 December 2015

Maternity leave
> Ms Saima Islam (September 2015 to March 2016)

Promotions:
> Professor David Brennan (Level D to Level E)

Achievements
> Associate Professor Jason Armfield’s NHMRC funded research, ‘Understanding the role of psychological factors in the etiology, prevention and treatment of high dental fear’, has been selected for inclusion in the 2015 edition of the NHMRC’s Ten of the Best Research Projects publication. Now in its tenth year, Ten of the Best highlights the work of outstanding researchers who are directly contributing to the prevention, diagnosis and treatment of health issues facing Australians.
> ARCPHO PhD student Ms Helena Schuch was awarded a Florey Medical Research Foundation prize. The title of her poster was ‘Longitudinal effects of socioeconomic status on periodontitis: a systematic review’. Helena’s supervisors are Loc Do, Marco Peres and Karen Peres.
> Ms Helena Schuch was also awarded the Winifred E. Preedy Postgraduate Bursary from the Australian Federation of University Women – South Australia (AFUW-SA) Inc. Trust Fund. Helena will use the funding ($2700) to attend the IADR in Seoul, Korea in 2016.
> Mrs Saima Islam was awarded the Australian Dental Research Foundation (ADRF), International College of Dentists Community Oral Health Award – awarded to the highest ranked application in the current year in the field of Community Oral Health. The title of this project is ‘Impact of oral health on nutrition intake and general health of older people – A longitudinal study’. Investigators are: Islam S, Brennan DS, and Roberts-Thomson KF. Funding amount awarded: $14,400.
> Dr Ninuk Hariyani was awarded the Australian Dental Research Foundation award for the project titled, ‘Impact of early childhood caries on oral health-related quality of life of preschool children-a population-based study’. Investigators are Hariyani N, Do L, Spencer AJ and Luzzi L. Funding amount awarded: $12,000.
> Dr Haiping Tan was awarded the 2015 IADR Unilever SEA Change Research Award during the 93rd General Session and Exhibition of the International Association for Dental Research (IADR) 11–14 March, Boston, Massachusetts, USA.
> Ms Joanne Hedges was awarded an Indigenous Staff International Travel Grant for the amount of $2500 to attend the 93rd General Session and Exhibition of the International Association for Dental Research (IADR) 11–14 March, Boston, Massachusetts, USA.
> Professional staff Ms Sarah Harman and Ms Ali White were awarded scholarships under the University’s Professional Staff Development Scholarship (PSDS) Scheme and will attend professional development activities through The University of Adelaide.
> Dr Jane Harford was awarded a 2015 Barbara Kidman Women’s Fellowship.

External Committee Appointments
> In 2015, Emeritus Professor John Spencer was a committee member of the Australian Government Department of Health, ANZ Nutrient Reference Values, Expert Working Group for Fluoride and the NHMRC, Effects of water fluoridation on dental and other health outcomes, Fluoride Reference Group.
> In mid-2015, Dr Costas Kapellas was appointed as the South Australian representative to the Oral Health Special Interest Group of the Public Health Association of Australia (PHAA).
> Dr Jane Harford was a representative of the AIHW Dental Statistics and Research Unit (AIHW DSRU) on the Oral Health Plan Monitoring Group throughout 2015.
> In 2015, Dr Peter Arrow was on the Board of Examiners at the Royal Australasian College of Dental Surgeons in the discipline of Dental Public Health and a member of the National Working Group on Minimal Intervention Dentistry since 2010.
> In 2015, Dr Ankur Singh was a member of the Global Working Group on Social Determinants of Health in the International Union for Health Promotion and Education (IUHPE); South West Pacific Regional Coordinator and Member of Editorial Board, International Student and Early Career Network (ISECN), International Union for Health Promotion and Education (IUHPE); and the International Student Representative on the Faculty of Health Sciences HDR Committee, The University of Adelaide.
Vale Sofia Christofis

It is with great sadness that ARCPOH acknowledges the sudden and unexpected passing of PhD candidate Dr Sofia Christofis. In addition to her role as a PhD student at ARCPOH, Sofia was a valued colleague and a good friend of many in the School. With an extensive background in private dental practice, running her own dental practices in Melbourne from 2006 to 2012, Sofia had also worked in the Public sector, in the Victorian School Dental Service in 1990, and also at the Dental Department of the Women’s and Children’s Hospital in Adelaide in 2012.

Sofia had a particular interest in advocating for better oral health for all sectors of the community, especially those that are disadvantaged. The focus of her research was on oral health inequalities as affected by individual and contextual factors. As Sofia was so close to completing her PhD, ARCPOH will endeavour to publish the findings from her research.

Sofia was supervised by Associate Professor Karen Peres, Dr Jane Harford and Dr Liana Luzzi. Our thoughts remain with Sofia’s family and friends, her supervisors, fellow students and colleagues at the University of Adelaide.
## Finance

### Research income

**Project Activity 1 January – 31 December 2015**

<table>
<thead>
<tr>
<th>Category</th>
<th>Opening balance</th>
<th>Actual income</th>
<th>Salary and related expenses</th>
<th>Other expenses</th>
<th>Closing balance</th>
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<td>DHS Oral Epi</td>
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<td><strong>1,023,327.39</strong></td>
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*Source data: Project Position Summary Report, University of Adelaide*
# New Grants and Fellowships

## Grants

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### Fellows

<table>
<thead>
<tr>
<th>Grant</th>
<th>Grantees</th>
<th>Topic</th>
<th>Time Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHMRC Career Development Fellowship</td>
<td>L Do</td>
<td>Understanding influences on child oral health</td>
<td>2012-2015 $111,960 pa</td>
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<tr>
<td>NHMRC Early Career Fellowship</td>
<td>K Kapellas</td>
<td>Sequencing Periodontal Bacteria To Determine The Relationship Between Periodontitis, Renal And Vascular Function Among Indigenous Australian Adults With Chronic Kidney Disease</td>
<td>2016-2019 $72,539 + $5k pa</td>
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<tr>
<td>NHMRC Career Development Fellowship</td>
<td>L Jamieson</td>
<td>Advancing Aboriginal Australian oral health through intervention studies, longitudinal studies, modelling and surveillance</td>
<td>2016-2020 $171,993 pa</td>
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### Research Grants

#### New and Continuing

<table>
<thead>
<tr>
<th>Grant</th>
<th>Grantees</th>
<th>Topic</th>
<th>Funding</th>
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<tbody>
<tr>
<td>Colgate Oral Care, Colgate Alliance for a Cavity-Free Future Community Grant</td>
<td>H Tan</td>
<td>Building a caries free community for the elderly</td>
<td>2015: $20,000</td>
</tr>
<tr>
<td>International Association for Dental Research, Unilever Social Entrepreneurship Approach to change oral health behaviour research award</td>
<td>H Tan</td>
<td>A social entrepreneur approach to oral health promotion for older people</td>
<td>$92,799 2015: $30,933 2016: $30,933 2017: $30,933</td>
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<tr>
<td>ADRF Grant</td>
<td>L Do, AJ Spencer, D Ha</td>
<td>Explaining the links between mother’s and child’s oral health a prospective cohort study</td>
<td>2015: $5,000</td>
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<tr>
<td>ADRF Award</td>
<td>J Armfield</td>
<td>Dental anxiety and past experiences: a qualitative study with dentally fearful Australian adults (2014)</td>
<td>2014: $3,659</td>
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<tr>
<td>Grant Type</td>
<td>Investigator(s)</td>
<td>Project Title</td>
<td>Years</td>
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<td>------------------------------------------------</td>
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<tr>
<td>ADRF Grant</td>
<td>G Mejia</td>
<td>Maternal and perinatal factors associated with early childhood caries (2014)</td>
<td>2014</td>
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<tr>
<td>NHMRC Project Grant #1046219</td>
<td>L Do, AJ Spencer, M Thomson, J Scott, D Ha</td>
<td>Common risk factor approach to address socioeconomic inequality in oral health of contemporary Australian preschool children (2013–2016)</td>
<td>2013</td>
</tr>
<tr>
<td>NHMRC Centre for Research Excellence #1031310</td>
<td>DS Brennan, LG Do, KF Roberts-Thomson, AJ Spencer</td>
<td>Dental health services research for improved oral health outcomes (2012–2016)</td>
<td>2012</td>
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<tr>
<td>Australian Primary Health Care Research Institute – Centres of Excellence in Primary Health Care Research</td>
<td>DS Brennan, L Crocombe, KF Roberts-Thomson, A Barnett (Tas), L Slack-Smith (WA)</td>
<td>Centre of Research Excellence (CRE) in Primary Oral Health Care (2012–2016)</td>
<td>2012</td>
</tr>
<tr>
<td>NHMRC Partnership Project Grant # 1016326</td>
<td>AJ Spencer, L Do, KF Roberts-Thomson, DS Brennan, G Mejia</td>
<td>Impact of health policy on the delivery of dental services and child oral health outcomes (2011–2014)</td>
<td>2011</td>
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<tr>
<td>NHMRC Project Grant # 1010758</td>
<td>KF Roberts-Thomson, L Do, P Liu</td>
<td>Randomised control trial of effectiveness of silver fluoride on managing deciduous caries in remote Aboriginal communities (2011–2014)</td>
<td>2011</td>
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<tr>
<td>NHMRC Project Grant # 1087986</td>
<td>Somogyi A, Jamieson L (CIB), Detwiller P</td>
<td>Personalised medicines for Aboriginal people (CIB component)</td>
<td>2015</td>
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<tr>
<td>NSW Ministry of Health</td>
<td>Do L</td>
<td>Assessing effectiveness and safety of water fluoridation</td>
<td>2016</td>
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<tr>
<td>ADRF</td>
<td>Islam S, Brennan DS, Roberts-Thomson KF</td>
<td>Impact of oral health on nutrition intake and general health of older people – a longitudinal study (2016)</td>
<td>2016</td>
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<tr>
<td>ADRF</td>
<td>Hariyani N, Do L, Spencer AJ, Luzzi L</td>
<td>Impact of early childhood caries on oral health-related quality of life of preschool children-a population-based study (2016)</td>
<td>2016</td>
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## Agreements

### External support through Agreements 2015

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

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<tr>
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<tr>
<td></td>
<td>Agreement Period</td>
<td>Funding Period</td>
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<tr>
<td>Brunei Government</td>
<td>Brunei Oral Health Survey</td>
<td>15 April 2015 – 30 June 2017</td>
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### Student summary

**Postgraduate students**

<table>
<thead>
<tr>
<th>Student</th>
<th>Degree</th>
<th>Topic</th>
<th>Commencement – RTS Expiry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Madhan Balasubramanian</td>
<td>PhD</td>
<td>Migration of international dental graduates</td>
<td>2010–2014 Completed</td>
</tr>
<tr>
<td>Katie Beckwith</td>
<td>PhD</td>
<td>The effects of school environment and societal functionality on child oral health practices and oral health outcomes</td>
<td>2012–2016</td>
</tr>
<tr>
<td>Sofia Christofis</td>
<td>PhD</td>
<td>Inequalities in child oral health</td>
<td>2013–2016 Candidate deceased in 2015</td>
</tr>
<tr>
<td>Esma Dogramaci</td>
<td>PhD</td>
<td>The development and perpetuation of malocclusions into the permanent dentition – does breastfeeding convey any protective effect?</td>
<td>2015–2019</td>
</tr>
<tr>
<td>Sue Gardner</td>
<td>PhD</td>
<td>Characteristics of dental providers working with underserved populations</td>
<td>2011–2014 Completed</td>
</tr>
<tr>
<td>Emmanuel Gnannamanickam</td>
<td>PhD</td>
<td>Cost-effectiveness and cost-utility of dental health insurance</td>
<td>2012–2016 Submitted</td>
</tr>
<tr>
<td>Dandara Haag</td>
<td>PhD</td>
<td>Dimensions of oral health related to overall quality of life in adults: A population based longitudinal study in Southern Brazil</td>
<td>2014–2018</td>
</tr>
<tr>
<td>Ninuk Hariyani</td>
<td>PhD</td>
<td>Root Caries over the Generations</td>
<td>2015–2019</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>2013–2017</td>
</tr>
<tr>
<td>Saima Islam</td>
<td>PhD</td>
<td>Evaluating the long term impact of oral health screening linked to priority dental care among community dwelling older people: A randomised 2 year intervention study</td>
<td>2013–2017 Maternity leave</td>
</tr>
<tr>
<td>Xiangqun Ju</td>
<td>PhD (p/t)</td>
<td>Longitudinal study of the relationship between periodontal disease and tooth loss in elderly people in South Australia</td>
<td>2011–2015 Submitted</td>
</tr>
<tr>
<td>Jenny Miller</td>
<td>PhD (p/t)</td>
<td>Social gradients in child oral health</td>
<td>2006–2015</td>
</tr>
<tr>
<td>Rahul Nair</td>
<td>PhD</td>
<td>Estimation of psychometric properties of COQAS (child oral-care quality assessment scale) and assessment of its correlates in Australia</td>
<td>2015–2019</td>
</tr>
<tr>
<td>Eleanor Parker</td>
<td>PhD (p/t)</td>
<td>Indigenous oral health literacy</td>
<td>2009–2019 Leave of absence</td>
</tr>
<tr>
<td>Helena Schuch</td>
<td>PhD</td>
<td>Social and biological risk factors for periodontal disease in adulthood – a life course approach</td>
<td>2014–2018</td>
</tr>
<tr>
<td>Dana Teusner</td>
<td>PhD</td>
<td>Dental insurance and use of services</td>
<td>2008–2013 Expired</td>
</tr>
<tr>
<td>Ankur Singh</td>
<td>PhD</td>
<td>Theoretical and empirical explanations for the relationship between social inequalities and population oral health outcomes</td>
<td>2014–2018</td>
</tr>
<tr>
<td>Eugene Twigge</td>
<td>DClinDent</td>
<td>Smile aesthetics and perceptions of the Australian general population</td>
<td>2013–2016</td>
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### Honours

<table>
<thead>
<tr>
<th>Student</th>
<th>Degree</th>
<th>Topic</th>
<th>Commencement – RTS Expiry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reshika Chand</td>
<td>Honours</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>2013–2015</td>
</tr>
<tr>
<td>Nicole Mueller</td>
<td>Honours</td>
<td>Association of oral health and Alzheimer’s disease</td>
<td>2014–2015 Leave of absence</td>
</tr>
<tr>
<td>Matthew Preece</td>
<td>Honours</td>
<td>Relationship between the mother’s/primary care giver’s knowledge of the risk factors for ECG, and the oral health of their children</td>
<td>2015–2017</td>
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### Scholarships

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<tr>
<th>Student</th>
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<th>Time Period</th>
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<tbody>
<tr>
<td>Katie Beckwith</td>
<td>ARCPOH Grant Funded</td>
<td>2012–May 2015</td>
</tr>
<tr>
<td>Emmanuel Gnanamanickam</td>
<td>ARCPOH Grant Funded</td>
<td>2012–June 2015</td>
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<tr>
<td>Dandara Haag</td>
<td>Brazilian Government (CAPES) Scholarship</td>
<td>2014–April 2018</td>
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<tr>
<td>Sofia Christofis</td>
<td>Adelaide Postgraduate Award</td>
<td>2013–April 2015</td>
</tr>
<tr>
<td>Ninuk Hariyani</td>
<td>Indonesian Government Scholarship</td>
<td>2014–2017</td>
</tr>
<tr>
<td>Saima Islam</td>
<td>ARCPOH Grant Funded (CRE Primary Health Care)</td>
<td>2013–Oct 2016</td>
</tr>
<tr>
<td>Rahul Nair</td>
<td>Adelaide Scholarship International</td>
<td>2015–2018</td>
</tr>
<tr>
<td>Ankur Singh</td>
<td>Australian Postgraduate Award – International</td>
<td>2014–Oct 2017</td>
</tr>
<tr>
<td>Helena Schuch</td>
<td>Brazilian Government (CAPES) Scholarship</td>
<td>2014–Apr 2018</td>
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# Student Candidature Record

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<tr>
<td>Intermittent/ suspended</td>
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|                        |      |      |      |      |      |      |      |      |      |      |
| MScDent / MPhil        |      |      |      |      |      |      |      |      |      |      |
| New                    | 1    | 1    |      |      |      |      |      |      |      |      |
| Continuing             | 1    | 1    | 1    | 0    | 0    | 1    |      |      |      |      |
| Completions            |      |      |      |      |      |      |      |      |      |      |

|                        |      |      |      |      |      |      |      |      |      |      |
| BScDent (Hons)         |      |      |      |      |      |      |      |      |      |      |
| New                    | 2    | 2    | 0    | 0    | 4    | 2    | 1    | 3    | 1    |      |
| Continuing             | 2    | 1    | 2    | 5    | 2    | 2    | 4    | 2    | 3    | 4    |
| Completions            | 1    | 1    | 3    |      |      | 2    | 1    | 3    | 2    |      |
| Intermittent/ suspended| 1    | 1    |      |      |      |      |      |      |      |      |

|                        |      |      |      |      |      |      |      |      |      |      |
| DClinDent              |      |      |      |      |      |      |      |      |      |      |
| New                    | 1    |      |      |      |      |      |      |      |      |      |
| Continuing             | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |      |      |
| Completions            | 1    |      |      |      |      |      |      |      |      | 1    |
Conferences

Professor Marco Peres attended the International Centre for Oral Health Inequalities Research and Policy (ICOHIRP) Launch Conference in London on Thursday 21 May 2015. The ICOHIRP was formed in 2014. Committed to tackling oral health inequalities both within and between countries, academics and policy makers from 15 countries have formed a global network to explore the nature and cause of oral health inequalities to inform future policy. The launch conference was held at the Royal College of General Practitioners in partnership with Public Health England. Professor Peres was invited to present on Psychosocial determinants of oral health and was involved in editing the brochure, ‘Social inequalities in oral health: from evidence to action’. It is intended that the conference will be held every two years.
Visiting Researchers

Nevatha Mathialagan
Pre-dental student at Wellesley College, Massachusetts, Ms Nevatha Mathialagan, visited ARCPOH on a travelling fellowship from early October to mid-November. With a background in social anthropology, Nevatha spent her time with ARCPOH looking at Aboriginal perceptions of pain and undertook fieldwork and a literature review during her visit. She also presented on ‘Diet in Baby Teeth Talk: An Ethnographic Approach’ at ARCPOH’s Friday Seminar on 13 November.

Nona Attaran
ARCPOH hosted Dr Nona Attaran, a third year PhD dental public health student from the Community Oral Health Department of Shahid Beheshti Dental University, Iran. Dr Attaran has worked as a dentist in different Asian and African countries for over 10 years and is particularly interested in striving towards a caries free population across the world, particularly in countries where access to oral health is difficult. Her PhD project is to find dental caries predictors in the Iranian population according to the results from the Iran National Oral Health Survey (2012). Dr Attaran worked closely with Professor Marco Peres during her stay from mid-August to November.

Toakai PuaPua
ARCPOH hosted Mr Toakai PuaPua, a visiting researcher from Tuvalu from June to mid-December. Toakai worked closely with Dr Diep Ha on analysing data from the Tuvalu National Oral Health Survey. This survey is a collaborative study supported by the Australian Government Department of Health. ARCPOH has provided expert advice in designing, coordinating and analysing the survey.

Toby Mummery
Mr Toby Mummery visited the Indigenous Oral Health Unit in July 2016. He is a final year dental student at Sheffield University School of Dentistry. Toby spent time in the field with the IOHU team and gave a Friday lunch presentation.

Chiraporn Khitdee
Dr Chiraporn Khitdee visited ARCPOH at the end of June. A visiting researcher from Thailand, Dr Khitdee visited Australia to undertake a tour in population oral health. She met with several health professionals at NSW Health and The University of Melbourne before travelling to ARCPOH at The University of Adelaide to meet with members of ARCPOH staff. Potential collaborations between Australia and Thailand were discussed with members of the ARCPOH Executive Committee.

Visiting presenters

> Dr Ron Somers, Director, Epidemiology, System Performance Division, South Australian Department for Health and Ageing, presented at an ARCPOH seminar on Friday 17 April 2015 on ‘Increasing the personal satisfaction in your career’.

> Dr Murthy Mittinty, Research Fellow, School of Population Health, The University of Adelaide, presented at an ARCPOH Seminar on 10 April 2015 on ‘How to assess mediation’.

> Mr Toby Mummery, visiting student, Sheffield University School of Dentistry, presented at an ARCPOH Seminar on Friday 24 July 2015 on ‘Experiences of Indigenous Oral Health Research in action from an overseas perspective’.

> Ms Nevatha Mathialagan, visiting student from Wellesley College, Massachusetts, presented at an ARCPOH Seminar on Friday 13 November 2015, on ‘Diet in baby teeth: an ethnographic approach’.

> Dr Chiraporn Khitdee, a dentist at the Bureau of Dental Health, Department of Health, Ministry of Public Health Thailand, presented at the ARCPOH Seminar on Friday 26 June on ‘Thailand Oral Health Systems’.
Congratulations to Sue Gardner who was awarded her PhD with a Dean’s commendation for ‘Doctoral Thesis Excellence’. The title of Sue’s thesis is ‘Exploration of dentists characteristics associated with caring for disadvantaged patients, using a mixed-methods approach’. Her supervisors were Professor Kaye Roberts-Thomson, Associate Professor Tracey Winning and Associate Professor Ray Petersen. The main findings were that dentists initial career choice motivation, religious affiliation, type and location of practice were associated with a practice orientation toward disadvantaged patients. However empathy and resilience, key themes from the qualitative study, and socio-economic factors, demographics and dental school experiences were not associated.

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Dr Rahul Nair arrived at ARCPOH in July to commence his PhD studies. Rahul graduated with a Bachelor of Dental Surgery from Manipal Academy of Higher Education, India, a Master of Public Health from Western Kentucky University and Master of Science in Dental Public Health from The University of Iowa. Rahul has an interest in quality of life research and has worked previously as Graduate Research Assistant working on the Iowa Fluoride Study and later as Assistant Professor at National University of Singapore. The title of Rahul’s project is ‘Estimation of psychometric properties of COPAS (child oral-care Performance assessment scale) and assessment of related factors in Australia’ and will look specifically at ‘Performance of oral care’. He is being supervised by Associate Professor Loc Do, Dr Liana Luzzi and Emeritus Professor John Spencer.

Ninuk Hariyani received her doctor degree of dental surgery (DDS) from The Faculty of Dentistry, Airlangga University in Indonesia, in 2003. Since 2006, she has been appointed as a lecturer in the same institution and worked in the Department of Dental Public Health. In 2011, she got an Australian Development Scholarship to pursue a Master of Public Health degree at The University of Adelaide. Her master’s project, ‘Root Caries and Exposure to Fluoridated Water among Australians Adults’ was done at ARCPOH. She finished her master degree in 2012 and went back to Indonesia as a lecturer. In 2014, Ninuk obtained a PhD scholarship from the Indonesian government. The aim of her PhD research at ARCPOH is to study the root caries experiences across generations among Australians. Ninuk’s research areas of interest include public health, oral epidemiology, the measurement of oral diseases, quality of life, social inequalities and oral health surveillance.

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Rahul Nair

Ninuk Hariyani

Sue Gardner
Research Activity

National Study of Adult Oral Health

ARCPOH, in partnership with the Australian Government Department of Health and State/Territory Health Departments and Dental Services, will coordinate the 2016–2018 National Study of Adult Oral Health (NSAOH 2), which marks 10 years since the last national survey of adult oral health (NSAOH 2004–06) was conducted. Support for the survey has also been received from the Australian Dental Association and Colgate.

The development of national oral health surveys are core components of oral health surveillance. The main aims of oral health surveillance are to assess population oral health outcomes and their determinants and to monitor them over time in order to inform policy makers, professional bodies and the public. For all of these reasons, it is highly recommended that national surveys be conducted periodically. In fact, the National Oral Health Plan 2015–24 calls for an adult and child survey to be conducted every 10 years.

ARCPOH staff will coordinate all aspects of the study including overall supervision of the study, sampling, training of examiners, data management, preparation and quality control, data analysis and reporting while State and Territory teams will be responsible for conducting the oral epidemiological examinations. Fieldwork is expected to commence mid-2016 and finish by end-2018.

This is excellent news for ARCPOH and the School of Dentistry. ARCPOH is planning to release a regular newsletter with updates about the study in early-2016, which will be available on the ARCPOH website.

The study has five specific aims and associated hypotheses:

1. To evaluate changes in the prevalence and extent of oral diseases in the Australian adult population and socioeconomic sub-groups since the 2004–06 study. We hypothesise that, in the last decade, caries prevalence and severity, along with tooth loss, have declined in young and middle-aged adults (the post-fluoride generation). However, that the prevalence of periodontal disease has increased; and that socioeconomic inequalities in oral health outcomes have widened over time.

2. To assess the incidence and progression of oral diseases among adults in the context of the available dental service systems, and in the context of individual dental healthcare behaviours. We hypothesise that oral disease incidence and progression varied by both individual and contextual socioeconomic characteristics and health behaviours including dental visiting behaviours. More importantly, that such variations were influenced by the accessibility, effectiveness, and cost of the available dental healthcare systems.

3. To estimate the projected burden of oral diseases in the period 2020–30. We define burden of oral diseases as its impact in the Australian adult population, as measured by financial cost and disability. We hypothesise that the projected population burden of oral diseases will vary according to socioeconomic status, geographic location, and dental healthcare delivery system used.

4. To analyse different usage patterns of dental services and the uptake of private dental insurance with respect to the longer-term costs and improvements to oral population health. We hypothesise that these analyses will demonstrate the value of targeted oral health programs, targeted preventive dental services, and alternative dental insurance plans.

5. To use a linkage and exchange model of knowledge translation that involves policy makers and dental service providers in the development, implementation, analysis and interpretation of the research. Policy makers and service providers have informed this proposed research. In turn, the study results will provide crucial scientific evidence to inform change in policy and practice for improved adult oral health outcomes.
Publications & Presentations


GBD 2013 DALYs and HALE Collaborators (Lalloo R) (2015). Global, regional, and national disability-adjusted life years (DALYs) for 306 diseases and injuries and healthy life expectancy (HALE) for 188 countries, 1990–2013: quantifying the epidemiological transition. Lancet Published online: August 26, 2015 DOI: http://dx.doi.org/10.1016/S0140-6736(15)61340-X.


Presentations

93rd General Session and Exhibition of the International Association for Dental Research (IADR) 11–14 March, Boston, Massachusetts, USA
Early Life Family Income Influence Lifetime Dental Pain Experience. Z Ghorbani, MA Peres, P Liu, GC Mejia, JM Armfield and KG Peres* (poster).
Atraumatic Restorative Treatment (ART) and Early Childhood Caries (ECC) (oral presentation). P Arrow* and E Klobas.
Non-surgical periodontal therapy may increase central arterial pulse wave velocity. K Kapellas*, G Mejia, M Mittinty, N Anstey, LM Jamieson (oral presentation).
Tooth loss and general quality of life: a population-based study (oral presentation) D Haag.
Dental Anxiety, Beliefs and Expectations among Disadvantaged Public Dental Service Users in Australia (oral presentation) JM Armfield* and L Luzzi.
Oral-health-Impact Changes in Employees with Disabilities Following Workplace Dental Program (oral presentation) A Pradhan*, D Brennan and D Keuskamp.
Voluntary Dental Graduate Year Program and Oral Health Therapy Graduate Year Programs Orientation Workshops, February, Adelaide, South Australia.
Evidence-based practice. L Crocombe (guest presenter).
Royal Australian and New Zealand College of Psychiatrists’ Annual Congress, 3–7 May 2015, Brisbane, Queensland
Psychosocial determinants of oral health inequalities. MA Peres (invited speaker).
Oral health impacts on quality of life in older patients (oral) DS Brennan*, D Keuskamp, KF Roberts-Thomson.
Common factors predicting oral health and general health in patients 75 years and older (poster) D Keuskamp*, DS Brennan, KF Roberts-Thomson.
2015 International Association for Dental Research (IADR) ANZ Division 55th Annual Scientific Meeting, Dunedin, New Zealand, 23–26 August 2015
Tooth loss and general quality of life: a population-based study (oral presentation) D Haag.
Evaluating impacts of third molars experience on QoL using Twitter (oral presentation) K Hanna*, D Brennan and P Sambrook.
Root Caries Experience among Australians Adults (oral presentation) N Hariyani.
Longitudinal effects of socioeconomic status on periodontitis: a systematic review (oral presentation) H Schuch*, Peres KG, Singh A, Peres MA, Do LG.
Theories on social inequalities and oral health: a scoping review (oral presentation) A Singh*, J Harford, HS Schuch, RG Watt, MA Peres.
Minimum Intervention Dentistry, child oral health-related quality of life and early childhood caries (oral presentation) P Arrow.
Associations between school aspects and child oral and general health (oral presentation) K Beckwith.
Inequalities in tooth loss distribution: a time-trend analysis in Australia (oral presentation) S Christofis.
13th Annual Research Day, School of Dentistry, Faculty of Health Sciences, University of Adelaide, Friday 10 July, Adelaide Convention Centre, Adelaide, South Australia.
Longitudinal effects of socioeconomic status on periodontitis: A systematic review HS Schuch*, Peres KG, Singh A, Peres MA, Do LG.
Tooth loss and general quality of life: A population-based study D Haag.
Dental insurance, dental service use and oral health outcomes: A review of Australian Literature E Gnanamanickam.
Theoretical basis and explanation for the relationship between area level social inequalities and population oral health outcomes: A scoping review A Singh*, J Harford, HS Schuch, RG Watt, MA Peres.
Inequalities in tooth loss distribution: A time-trend analysis in Australia S Christofis.
Associations between school aspects and child oral and general health K Beckwith.
The effect of cognitive impairment on the periodontal disease progression among older Australians X Ju*, L Do, G Mejia and AJ Spencer.
Why do dentists need to provide patients with guidance in surfing the internet? K Hanna*, D Brennan, J Armfield and P Sambrook.
2015 Australian Association of Gerontology (AAG) “Better Oral Health for Older People” workshop, 19 August 2015, Helping Hand, South Australia

H Tan (Workshop organiser)

Oral Health among Older People.

H Tan.

Dental Hygiene Association (SA Branch) CPD day 4 September 2015, Adelaide Convention Centre, Adelaide, South Australia

Periodontitis and vascular health: the literature to date. K Kapellas (invited speaker).


Australian Dental and Oral Health Therapist Association (ADOHTA) 4th International Conference, 10–13 September 2015, Melbourne, Victoria, Australia

Plenary session: Oral Health Practitioners Activity Study.

Teusner DN (Invited Speaker).

The association between severe mental illness and poor oral health. Kisely S, Baghaie H, Laloo R, Siskind D, Johnson NW.


Longitudinal effects of socioeconomic status on periodontitis: A systematic review. HS Schuch*, Peres KG, Singh A, Peres MA, Do LG.

Theories on social inequalities and oral health: a scoping review (poster presentation) A Singh*, J Harford, HS Schuch, RG Watt, MA Peres.

The 10th International Association for Gerontology and Geriatrics (IAGG) Congress, 19–22 October 2015, Chiang Mai, Thailand
