



# Australian Research Centre for Population Oral Health

## Director's note

Over the past six months, ARCPOH has had some major highlights and achievements to share. Professor Lindsay Richards took over as the Dean of the School of Dentistry on 18 May. We welcome Professor Richards and wish him a successful period as the leader of our school.



Prof. Marco Peres



Dr Liana Luzzi

Internally at ARCPOH, two new appointments have been made. Dr Jane Harford was nominated and appointed Director of the Oral Health Promotion Clearinghouse (OHPC) and Associate Professor Karen Peres was nominated and appointed Director of the Dental Practice and Education Research Unit (DPERU).

In March, ARCPOH was well represented at the 93rd General Session and Exhibition of the International Association for Dental Research (IADR) 11–14 March, Boston, Massachusetts, USA, with 1 symposium, 6 oral presentations and 3 posters presented. Dr Haiping Tan was awarded the 2015 IADR Unilever SEA Change Research Award at this conference.

Congratulations to Dr Kostas Kapellas and Dr Suzanne Gardner who have successfully completed their PhDs. The end of June and beginning of July has been a busy time for ARCPOH staff with the preparation of 10 NHMRC project grant rebuttals. Good luck and fingers crossed.

I recently presented at the International Centre for Oral Health Inequalities Research and Policy (ICOHIRP) Launch Conference in May in London for the launch of the International Centre for Oral Health Inequalities Research and Policy. This was an excellent opportunity to network and establish new international collaborations.

Unfortunately, there has also been some lowlights during this period. Dr Gloria Mejia resigned earlier this year and has taken up a position in the US at East Carolina University. Ms Gina Stephens, ARCPOH's former Business Manager, has also taken up a position external to the University. We would also like to acknowledge the contribution of Dr Ratilal Laloo whose contract ended in April. The end of the semester coincides with the departure of A/P Fabio Leite and PhD candidate Gustavo Nascimento and their return to Brazil after one year at ARCPOH. Our best wishes to Gloria, Gina, Rati, Fabio and Gustavo.

## ARCPOH Executive Committee

Professor Marco Peres (Director)  
Dr Liana Luzzi (Deputy Director)  
Associate Professor Jason Armfield  
Professor David Brennan  
Associate Professor Loc Do  
Dr Jane Harford  
Associate Professor Lisa Jamieson  
Associate Professor Karen Peres

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## Unit Director Updates



Associate Professor  
Karen Peres

### Dental Practice Education Research Unit

DEPRU ongoing activities of researching and developing new material, updating and redesigning older material, dealing with professional and public enquires and processing online CPD quizzes and certificates. The Special Topic No. 10, Caries Risk Assessment for Children, will be released by end of June 2105 and the Special Topic No.11 on Dental Anxiety is expected to be released by October 2015. The number of professionals who had attempted the online-CPD quiz from January to mid-June 2015 was 58 and 18 professionals have claimed CPD points. The DPERU website is in the queue for upgrading to the new format.



Dr Jane Harford

### Oral Health Promotion Clearinghouse

This has been an exciting time to take up a role with the Clearinghouse. Ongoing activities of developing and maintaining the website, planning a biennial consensus workshop and contributing to the National Strategy on Oral Health Promotion have continued. It has been a particularly busy time with upgrade to the website to improve accessibility, especially for users who use screen reading software. The next consensus workshop, which will focus on oral health promotion processes, is planned for 2016.

## Collaborative research ICOHIRP

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.



### Social inequalities in oral health: from evidence to action

Edited by Richard G Watt, Stefan Listl,  
Marco Peres and Anja Heilmann



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## PhD student updates

### PhD completions



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.



In May Kostas Kapellas was awarded his PhD titled, 'Investigation of non-surgical periodontal treatment effect on arterial stiffness, a surrogate marker of cardiovascular disease'. Kostas PhD was supervised by Associate Professor Lisa Jamieson, Associate Professor Loc Do and Professor Mark Bartold. His thesis used a parallel-group randomised controlled design to investigate whether non-surgical periodontal therapy influenced central arterial stiffness in a sample of Indigenous Australian adults with moderate to severe periodontal disease. Cross-sectional analysis of baseline data revealed that there was a dose-dependent linear association between pulse wave velocity (PWV) with increasing severity of periodontal disease. This association attenuated with systolic blood pressure suggesting that the aetiology of arterial stiffening is strongly influenced by hypertension in this population. A single untimed session of non-surgical periodontal therapy resulted in clinically marginal improvements of shallow periodontal pockets and reduced gingival bleeding for the treatment group compared to control but did not significantly influence PWV.

### New PhD student: Ninuk Hariyani



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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## Visitors

### Visiting researchers



Marco Peres, Chiraporn Khitdee and Liana Luzzi

ARCPOH welcomed a visit from Dr Chiraporn Khitdee 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.

ARCPOH has also welcomed visiting student Toby Mummery from the University of Sheffield. Toby will be undertaking field work for the Indigenous Oral Health Unit until the end of July.

### 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 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 Friday 10 April on 'How to assess mediation'.
- > 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'.

### Staff achievements

- > Professor David Brennan was promoted from Level D (Associate Professor) to Level E (Professor).
- > 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.
- > Ms Helena Schuch was awarded the 2015 Winifred E. Preedy Postgraduate Bursary through the Australian Federation of University Women Federation South Australia Inc (AFUW-SA) to attend the next annual IADR in Seoul, South Korea.
- > Dr Jane Harford was awarded a 2015 Barbara Kidman Women's Fellowship.

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## ARCPOH published papers 2015

Balasubramanian M, Spencer AJ, Short SD, Watkins K, Chrisopoulos S and Brennan DS (2015). Characteristics and practice profiles of migrant dentist groups in Australia: implications for dental workforce policy and planning. *International Dental Journal* (early online 11 Feb 2015) doi:10.1111/idj.12154.

Balasubramanian M, Brennan DS, Spencer AJ and Short SD (2015). The "global interconnectedness" of dentist migration: a qualitative study on the life-stories of international dental graduates into Australia. *Health Policy and Planning* 2015; 30; 442–450.

Balasubramanian M, Brennan DS, Spencer AJ, Watkins K and Short SD (2015). The importance of workforce surveillance, research evidence and political advocacy in the context of international migration of dentists. *British Dental Journal* 218(6): 329–331.

Barbarto PR and Peres KG (2015). Contextual socioeconomic determinants of tooth loss in adults and elderly: a systematic review. *Rev Bras Epidemiol*. Apr-Jun 2015; 18(2): 357-371 DOI: 10.1590/1980-5497201500020006.

Barbarto PR, Peres MA, Hofelmann DA and Peres KG (2015). Contextual and individual indicators associated with the presence of teeth in adults. *Rev Saúde Pública* 2015; 49:27.

Bhaumik S, Arora M, Singh A, Sargent JD (2015). Impact of entertainment media smoking on adolescent smoking behaviours (Protocol) *Cochrane Collaboration* (online early 4 June 2015) DOI: 10.1002/14651858.CD011720

Brennan DS, Balasubramanian M, Spencer AJ (2015). Treatment of caries in relation to lesion severity: implications for minimum intervention dentistry *Journal of Dentistry* 43(1): 58–65.

Brennan DS, Spencer AJ (2015). Income-based life course models of caries in 30-year-old Australian adults. *Community Dent Oral Epidemiol* 43: 262-71.

Brennan DS, Teusner DN (2015). Oral health impacts on self-rated general and oral health in a cross-sectional study of working age adults. *Community Dent Oral Epidemiol* 43: 282-88.

Crocombe LA, Kraatz J, Hoang H, Qin D and Godwin D (2015). Costly chronic diseases: a retrospective analysis of Chronic Disease Dental Scheme expenditure. *Australian Health Review* <http://dx.doi.org/10.1071/AH14191>.

Do LG, Spencer AJ (2015). Contemporary multilevel analysis of the effectiveness of water fluoridation in Australia. *Aust NZ J Public Health* 39(1):44-50.

Ghorbani Z, Ahmady AE, Ghasemi E and Zwi A (2015). Socio-economic inequalities in oral health among adults in Tehran, Iran. *Community Dental Health* 2015;32: 26–31.

Gutaker N, Harris AH, Brennan DS, Hollingsworth B (2015). The determinants of dental practice productivity and the measurement of output. *Soc Sci Med* 2015;124:76–84.

Kisely S, Baghaie H, Laloo R, Siskind D, Johnson NW (2015). A systematic review and meta-analysis of the association between poor oral health and severe mental illness. *Psychosomatic Medicine* 77(1):83–92.

Mathur MR, Singh A, Watt RG (2015). Addressing inequalities in oral health in India: need for skill mix in the dental workforce. *Journal of Family Medicine and Primary Care*, 4(2):200–202.

Nascimento GG, Leite FR, Do LG, Peres KG, Correa MB, Demarco FF, Peres MA. Is weight gain associated with the incidence of periodontitis? A systematic review and meta-analysis. *J Clin Periodontol*. 2015 May 8. doi: 10.1111/jcpe.12417.

Núñez L, Sanz J, Mejía G (2015). Caries dental y desarrollo infantil temprano: Estudio piloto. *Rev Chilena Pediatría*. 2015; 86(1).

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- Ozcariz SG, de O Bernardo C, Cembranel F, Peres MA, González-Chica DA (2015). Dietary practices among individuals with diabetes and hypertension are similar to those of healthy people: a population-based study. *BMC Public Health*, 2015 May 10;15(1):479.
- Peres KG, Peres MA, Thomson WM, Broadbent JM, Hallal PC, Menezes AB (2015). Deciduous-dentition malocclusion predicts orthodontic treatment needs later: Findings from a population-based birth cohort study. *Am J Orthodontics and Dentofacial Orthopedics*,147(4) 492–498.
- Peres MA, Luzzi L, Peres KG, Sabah W and Antunes JL (2015). Income-related inequalities in inadequate dentition over time in Australia, Brazil and USA. *Community Dentistry and Oral Epidemiology*. Early online 22 January 2015: doi: 10.1111/cdoe.12144.
- Schuch HS, Peres KG, Do LG, Peres MA (2015). Can socioeconomic trajectories during the life influence on periodontal disease occurrence in adulthood? Hypotheses from a life course perspective. *Journal of Medical Hypotheses*, 2015 Mar 11. pii: S0306-9877(15)00116-4. doi: 10.1016/j.mehy.2015.03.011. (e-pub ahead of print).
- Silva PSC, Boing AF and Peres KG (2015). Reduction of inequalities in the use of medical in Brazil: analysis of the Northeast and Southeast regions of Brazil between 2003 and 2008. *Brazilian Journal of Epidemiology Rev Bras Epidemiol*. Jan-Mar 2015; 18(1): 248-61.
- Singh A, Harford J, Watt R and Peres MA (2015). The role of theories in explaining the association between social inequalities and population oral health: a scoping review protocol JBI Database of Systematic Reviews & Implementation Reports 13(4) 30–40.
- Tan H, Peres KG, Peres MA (2015). Do people with shortened dental arches have worse oral health-related quality of life than those with more natural teeth? A population-based study. *Community Dentistry and Oral Epidemiology* 43(1):33–46.
- Vargas-Ferreira F, Salas MMS, Nascimento GG, Tarquinio SB, Faggion CM, Peres MA, Thomson WM (2015). Association between developmental defects of enamel and dental caries: a systematic review and meta-analysis. *Journal of Dentistry* 2015 Apr 7. pii: S0300-5712(15)00079-2. doi: 10.1016/j.jdent.2015.03.011 (e-pub ahead of print).

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## ARCPOH presentations 2015

### **93<sup>rd</sup> General Session and Exhibition of the International Association for Dental Research (IADR) 11–14 March, Boston, Massachusetts, USA**

#### **Symposium Oral Health Inequalities Across Five Nations: What do the data tell us?**

**Sponsored by:** Behavioral, Epidemiologic, and Health Services Research

**Organizer:** **GC Mejia**.

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).

Socio-economic Position, Dental Care and Self-rated Oral Health. **GC Mejia**, JM Armfield, LM Jamieson (poster).

Motivation and Satisfaction with Studying Dentistry among South African students (oral presentation). Ayo-Yusuf OA, **Laloo R\***, Barrie R, Yengopal V.

Tooth Retention in Australia, 1994—2010: Age-period-cohort Analysis. **JE Harford**, S Chrisopoulos and L Luzzi (poster).

Dental Anxiety, Beliefs and Expectations among Disadvantaged Public Dental Service Users in Australia (oral presentation) **JM Armfield\*** and L Luzzi.

Water fluoridation reduces socioeconomic inequalities in children (Keynote address) **D Ha\***; L Jamieson, AJ Spencer, G Mejia, L Do.

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. (Guest presenter L Crocombe.

### **International Centre for Oral Health Inequalities Research and Policy, Launch Conference, London, 21st May, 2015.**

Psychosocial determinants of oral health inequalities. M Peres (invited speaker).