

The National Health & Medical Research Council of Australia

Centre of Research Excellence in Frailty & Healthy Ageing



Research Report 2016-2019



Project Lead Foreword

As a team we sought funding to achieve several aims whilst building research capacity in the research topic of Frailty in Australia. To recap, our aims were to increase awareness about frailty, define the extent of frailty, mapping to inform health service policies, testing and implementing screening pathways for frailty and general practice and aged care and developing and testing interventions to treat frailty. Over the last five years, we have delivered on some of our stated intentions and progressed significantly with some of our other aims.

What we are most proud of however is the achievement of our research students and research fellows. PhD candidates have graduated and been recognized with awards. Research fellows have secured academic roles. We have added to the team over time providing evidence for our increasing ability to attract and retain high quality research candidates and fellows.

The next two years will be about securing additional research or other funding to leverage on our work thus far for the benefit of older Australians. We look forward to seeing previous PhD candidates move forward in establishing independent research careers.

We are most grateful also to the support provided to our team by the CRE Frailty and Healthy Ageing advisory group and the independent chair of our management group (Emeritus Professor Derek Frewin AO).

2020 has been a challenging year for everyone. We have however strived to maintain our research momentum and continue of research efforts.



Professor Renuka Visvanathan is project lead and head of Geriatric Medicine & Gerontology Theme

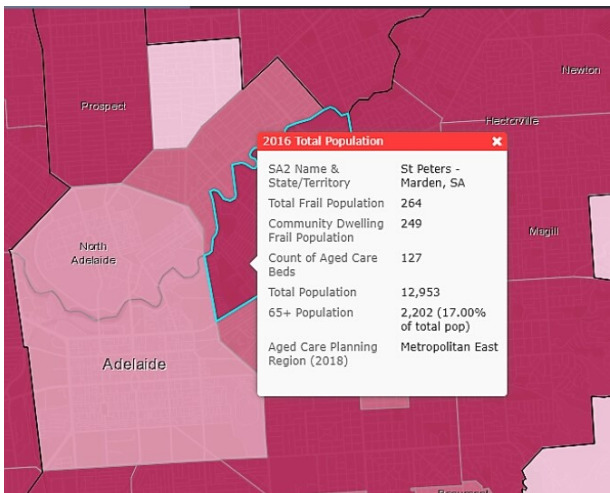
Professor Renuka Visvanathan.
September 2020

Research Highlights

Geriatrics and Gerontology

1/ Frailty Burden & Mapping In Australia

- Thompson M et. al. *Frailty prevalence in Australia: Findings from four pooled Australian cohort studies*. Aus J Ageing 2018; 37(2): 155-158. Since publication, this paper has been cited 11 times. The paper was also accompanied by an editorial. 18% of participants aged 65 years and older were frailty by the phenotypic method
- The findings contributed to the frailty web map developed by Hospital Research Foundation mid career fellow Dr Danielle Taylor. The frailty web map was a first for Australia and responded to the recommendation in the Commonwealth funded report released in January 2018- Frailty in community dwelling older people using frailty screening as the canary in the coal mine (Benetas). www.spatialonline.com.au/frailtyestimates
- Aged care providers are using the web map for service planning and bids for commonwealth subsidies.



Interactive frailty web map developed by Dr Danielle Taylor

2/ Frailty Screening in Aged Care

- Conceptualised as a result of a collaborative meeting in Adelaide, the screening tool is now recommended for use in a New Zealand guideline for aged care services with regards to managing consumers with deteriorating health.
- A Frailty Index for the Aged Care Assessment Program (or ACAT). Published in the Medical Journal of Australia, in collaboration with the Registry of Senior Australians, a frailty index tool for use in aged care has been developed.



The Geriatric Medicine & Gerontology Theme in 2019. Front row L-R: A Halder, B Martins, R Visvanathan, D Taylor, J Dollard, S Hoskins. Back Row L-R: C Falcone, J Smyth, L Baker, S Yu, A Jadczyk, M Hossein, S Smith, F Ibrahim. Not Pictured: M Thompson, U Jasper, K Khaw, A Gupta, S Ahip,

Medication Management and Frailty

- Development of international consensus principles for medication management in frail older people: Published in Journal of the American Medical Directors Association, the 17 principles cover the domains of clinical practice, research and education. The principles have been endorsed by the European Geriatric Medicine Society (EuGMS), International Conference on Frailty and Sarcopenia Research (ICFSR), and Australian and New Zealand Society for Sarcopenia and Frailty Research (ANZSSFR). The principles have been mentioned over 187 times on social media since July 2020.
- International study into the pattern of medication use according to frailty status in residential aged care: Study will be conducted in Australia, Hong Kong, Poland, South Korea, Japan, Italy, New Zealand, United States, Canada, Netherlands, Finland. Frailty will be categorised using the FRAIL-NH. Investigators have collected data for ~15,000 residents across 12 countries.
- Systematic review on the predictive validity and cross-cultural adaptations of the FRAIL-NH scale. The systematic review has identified 26 studies that have used the FRAIL-NH scale developed by Frailty CRE members, including translation of the scale into Chinese, Japanese, Spanish and Portuguese.

Frailty Screening in General Practice

- Our critique on the ethics of frailty screening has been cited 16 times since its publication in 2019, including within international guidelines on frailty, in a Lancet series on frailty, and in multiple systematic reviews. It was also referenced by a NSW Agency for Clinical Innovation paper on over-diagnosis of older people (2019).
- The flagship results from Dr. Rachel Ambatsheer's PhD thesis on frailty screening were recently published in the world #2 listed journal for Geriatrics and Gerontology, the Journals of Gerontology Series A: Biological Sciences and Medical Sciences. To our knowledge, it is one of the largest and most comprehensive frailty screening studies conducted within general practice worldwide. A key finding of our research is that the Kihon Checklist and Reported Edmonton Frail Scale is suitable for use in Australian General Practice.



Dr Rachel Ambatsheer at the 2018 Research Showcase

Health Economics

- This paper reported on the development of the first cost-effectiveness model to estimate costs and health outcomes over the remaining lifetime of pre-frail and frail individuals. This paper has been cited 6 times. Karnon J, Afzali H, et al. *A Cost-Effectiveness Model for Frail Older Persons: Development and Application to a Physiotherapy-Based Intervention*. Appl Health Econ Health Policy. 2017: 15:635–645
- The paper contributed to the development of a comprehensive decision analytic model to evaluate the value of frailty interventions (Afzali H, Karnon J, et al. *Structuring a conceptual model for cost-effectiveness analysis of frailty interventions*. PloS one 14), e0222049)
- Using good practice for modelling to develop model structure and SHARE data to estimate model inputs, this model can be used as a condition-specific reference model to estimate costs and quality-adjusted life-years associated with a range of alternative interventions for the management of frailty. The model will be used to generate economic evidence required to inform public funding decisions.

Digital Health for Fragility fracture

- A literature review conducted by the team suggested that digital health supported interventions were twice as effective as usual standard care. This review has now been scopus cited 3 times. Yadav L, Gill TK, Taylor A, Jasper U, De Young J, Visvanathan R, et al. *Cocreation of a digital patient health hub to enhance education and person-centred integrated care post hip fracture: a mixed-methods study protocol*. Int J Environ Res Public Health. 2019 10 22;16(20):4047. <http://dx.doi.org/10.3390/ijerph16204047>
- A/Prof Chehade lead a policy and practice paper which was published in the Bulletin of the World Health Organization. This work has been gathering wider interest since its publication among collaborators, globally not only around fragility fractures but also other musculoskeletal conditions and multimorbidities. Chehade MJ, Yadav L, Jayatilaka A, Gill TK, Palmer E. *Personal digital health hubs for multiple conditions*. Bull World Health Organ. 2020;98(8):569-575. <http://dx.doi.org/10.2471/BLT.19.249136>
- Securing grant funding from AMGEM and led by A/Prof Chehade, the team is developing a digital health hubs platform utilising an existing open-sourced Learning Management System. The team plans to host a virtual fracture liaison service facilitated through a tertiary care setting at the CALHN. In collaboration with the School of Computer Science, machine learning and artificial intelligence methods will be applied with the large dataset that will eventually be collected. The ultimate outcome being to improve the health outcomes of patients with fragility fractures.

Social Science and Frailty

- Dr Helen Barrie was part of a team led by Prof Alex Brown that was awarded National Health and Medical Research Council Targeted funding of \$741,947 to support the project '*Designing Indigenous aged care with a 'whole of community' perspective*'. 2019-2021
- Dr Helen Barrie carried out research on outdoor and indoor environments and their impacts on older people's mobility, independence and quality of life. She used an innovative citizen science approach to audit the neighbourhoods and lived spaces of older South Australians and from the pilot work produced a paper: Barrie, H., Soebarto, V., Lange, J., Corry-Breen, F., & Walker, L. (2019). *Using citizen science to explore neighbourhood influences on ageing well: pilot project*. *Healthcare*, 7(4), 126-1-126-13.
For the above publication Dr Barrie and the team were able to secure an SA Health & Wellbeing 'Citizen Science for a Greener Adelaide' 2020 and also secured additional project funding from Office for Ageing Well Co-designing Age Friendly Cities through Citizen Science' 2020
- Dr Barrie also secured an Australian Housing and Urban Research Institute (AHURI) grant to fund - Inquiry into housing policies and practices for precariously housed older Australians (20/PRO/32250). This will investigate how to provide a more differentiated and diversified housing system that better caters to the needs of precariously housed, older individuals.

Frailty Knowledge Translation

- Dr Archibald co-developed a videos series about frailty (recently translated into Mandarin with the support of an AAG Gibson Grant), and a series of artistic works that won first place in 'Perform your Science competition (SA)' and an 'Inspiring SA Regional Science-Arts Collaboration Grant'.
- Dr Lawless has been awarded a Flinders University: Caring Futures Institute Accelerator Grant to investigate Frailty and healthy ageing in online communities, and a RM Gibson Grant from the AAG to produce research and communication resources about frailty.
- Dr Pinero de Plaza has also been awarded a Flinders University: Caring Futures Institute Accelerator Grant for exploring the experiences of frail, homebound and bedridden people, and a Flinders University: Caring Futures Institute Collaborative Grant for investigating the use of digital technologies in the inpatient setting.



Left: Assoc/Prof Mandy Archibald at left with artist John Blines, Choreographer Amber Cronin and Videographer Justin Broughton.
Middle and right: artistic pieces from the Beyond Measure Exhibition and guests at the exhibition launch.

CRE Frailty & Healthy Ageing Investigators



Professor Renuka Visvanathan



Professor Jon Karnon



Professor Alison Kitson



Professor Justin Beilby



Professor Ian Cameron



Professor Simon Bell



A/Professor Mellick Chehade



Dr Helen Barrie

Investigator Name

Chief Investigators

Visvanathan, Renuka
Karnon, Jon
Kitson, Alison
Beilby, Justin
Cameron, Ian
Bell, Simon
Chehade, Mellick
Barrie, Helen

Research Stream

Geriatric Medicine and Gerontology
Health Economics
Knowledge Translation
General Practice
Rehabilitation Medicine
Geriatric Pharmacoepidemiology
Orthopaedic and Trauma Surgery
Social Science and Frailty

Institution

The University of Adelaide
Flinders University
Flinders University
Torrens University
The University of Sydney
Monash University
The University of Adelaide
University of South Australia

Independent Chair

Frewin, Derek

Emeritus Professor of The University of
Adelaide and Independent Chair Management
Committee

University of Adelaide

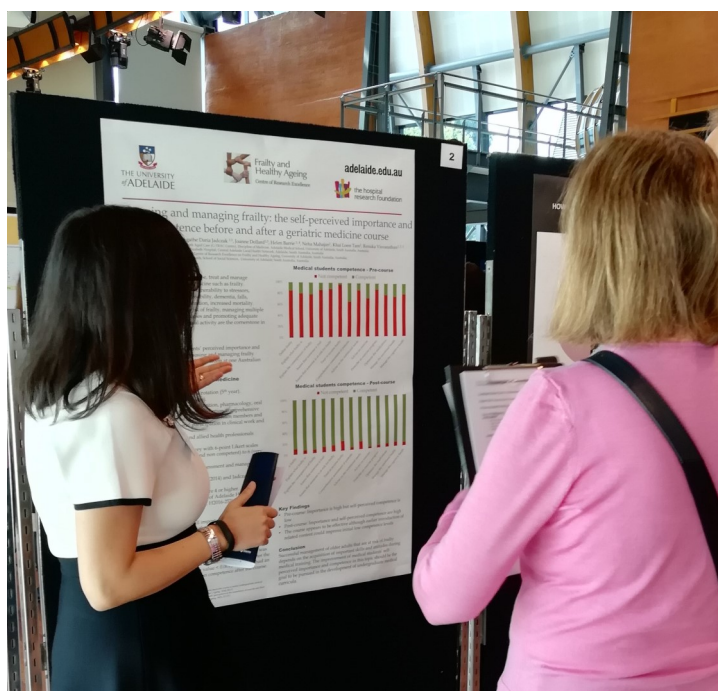
CRE Frailty & Healthy Ageing Investigators

<i>Investigator Name</i>	<i>Research Stream</i>		<i>Institution</i>
<u><i>Associate Investigators</i></u>			
<u><i>International</i></u>			
Cesari, Matteo	Geriatric Medicine and Gerontology		The University of Milan
Morley, John	Geriatric Medicine and Gerontology		St Louis University
Rockwood, Ken	Geriatric Medicine and Gerontology		Dalhousie University
Theou, Olga	Geriatric Medicine and Gerontology		Dalhousie University
<u><i>Domestic</i></u>			
Schultz, Tim	Knowledge Translation		The University of Adelaide
Taylor, Danielle	Geography and Demography		The University of Adelaide
Yu, Solomon	Geriatric Medicine and Gerontology		The University of Adelaide
<u><i>Administrative Support</i></u>			
Wilson, David	Geriatric Medicine and Gerontology		Consultancy
Tucker, Graeme	Geriatric Medicine and Gerontology		Consultancy
Baker, Leonie	Project Manager - CRE Frailty and Healthy Ageing		The University of Adelaide
<u><i>Current Research Fellows</i></u>			
Ambagtsheer, Rachel	General Practice		Torrens University
Amare, Azmeraw	Geriatric Medicine and Gerontology		The University of Adelaide
Dollard, Joanne	Geriatric Medicine and Gerontology		The University of Adelaide
Jadczak, Agathe Daria	Geriatric Medicine and Gerontology		The University of Adelaide
Thompson, Mark	Geriatric Medicine and Gerontology		The University of Adelaide
Archibald, Mandy	Knowledge Translation		Flinders University
Lawless, Michael	Knowledge Translation		Flinders University
Pinero de Plaza, Maria Alejandra	Knowledge Translation		Flinders University
Jayatilaka, Asangi	Orthopaedics		The University of Adelaide
<u><i>Previous Research Fellows</i></u>			
Hendrix, Ivanka	Geriatric Medicine and Gerontology	2017	The University of Adelaide
Hosking, Sarah	Geriatric Pharmacoepidemiology	2017 - 2018	Monash University
Korhonen, Maarit	Geriatric Pharmacoepidemiology	2017	Monash University
Afzali, Hossein	Health Economics	2016 - 2019	Flinders University

CRE Frailty & Healthy Ageing Students

Current PhD Students

Student Name	Thesis	Supervisor	Degree and Institution
Ahip, Sally Suriani	The Malaysian Pictorial Fit-Frail Scale (M-PFFS): Development and Testing of Feasibility, Validity and Reliability In Malaysia	Visvanathan R Theou O Shariff S	PhD The University of Adelaide
Gupta, Anupam Data	Lower limb spasticity and dystonia	Visvanathan R Wilson D Cameron I Koblar	PhD The University of Adelaide
Jasper, Unyime	Preventing frailty, immobility and sedentary lifestyle in older people	Visvanathan R Jadczak A Dollard J Yu S	PhD The University of Adelaide
Khow Sok Fun, Kareeann	Frailty, falls, hip fractures and clinical outcomes in older people	Visvanathan R Yu S	PhD The University of Adelaide
Liau, Shin	Patterns and outcomes of medication use according to frailty status in a range of practice settings	Bell S	PhD Monash University
Smyth, James	Utility of frailty and activities of daily living (ADL) assessments in the management of emergency department patients from nursing homes in the context of the growing aged population, associated emergencies and multi-disciplinary care	Visvanathan R Arendts G Grantham H	PhD The University of Adelaide
Yadav, Lalit	Digital patient education platform to facilitate hip fracture recovery: perspectives of patients, family members and residential aged carers in South Australia	Mellick C Gill T	PhD The University of Adelaide



Dr Beatriz Martins (left) explaining her research at the 2019 Florey Post Graduate Conference



Centre Dr Anupam Data Gupta (PhD Candidate) with colleagues Dr Kandiah Umapathysivam and Dr Nigel Quadros

Completed Post Graduate Students

2020

Ambagtsheer, Rachel	Assessing the Appropriateness of Frailty Screening in the Australian General Practice Context: Ethics, Accuracy, Feasibility and Ac-	Beilby J Dent E Yu S	PhD Torrens University
Martins, Beatriz	Built Environment and Frailty: Understanding the influence of neighbourhood on older people's health	Visvanathan R Barrie H Kuzuya M	PhD The University of Adelaide
Thompson, Mark	Frailty in Older Adults: Findings from Longitudinal Studies	Visvanathan R Theou O	PhD The University of Adelaide

2019

Lawless, Michael	'Mind your Mind': Representations of Dementia Risk-prevention in News and Digital Media	Kitson A	PhD Flinders University
McNally, Clare	An Exploratory Investigation of the Oral Health of Hospitalised Older People	Adams R Visvanathan R Liberali S	PhD The University of Adelaide

2018

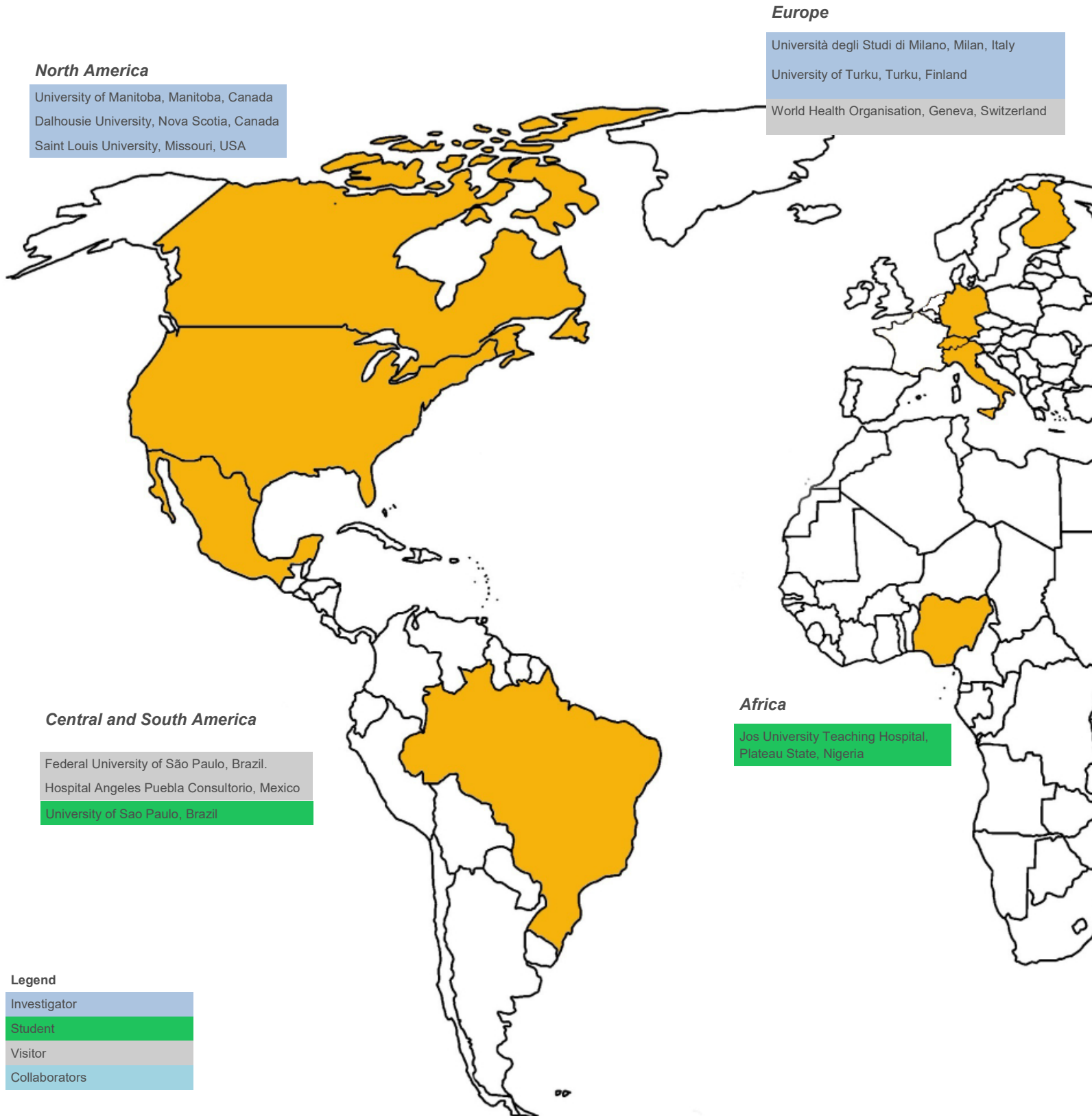
Jadczak, Agathe	Exercise and Older People: Strategies to Prevent, Treat and Delay Frailty	Visvanathan R Luscombe-Marsh N	PhD The University of Adelaide
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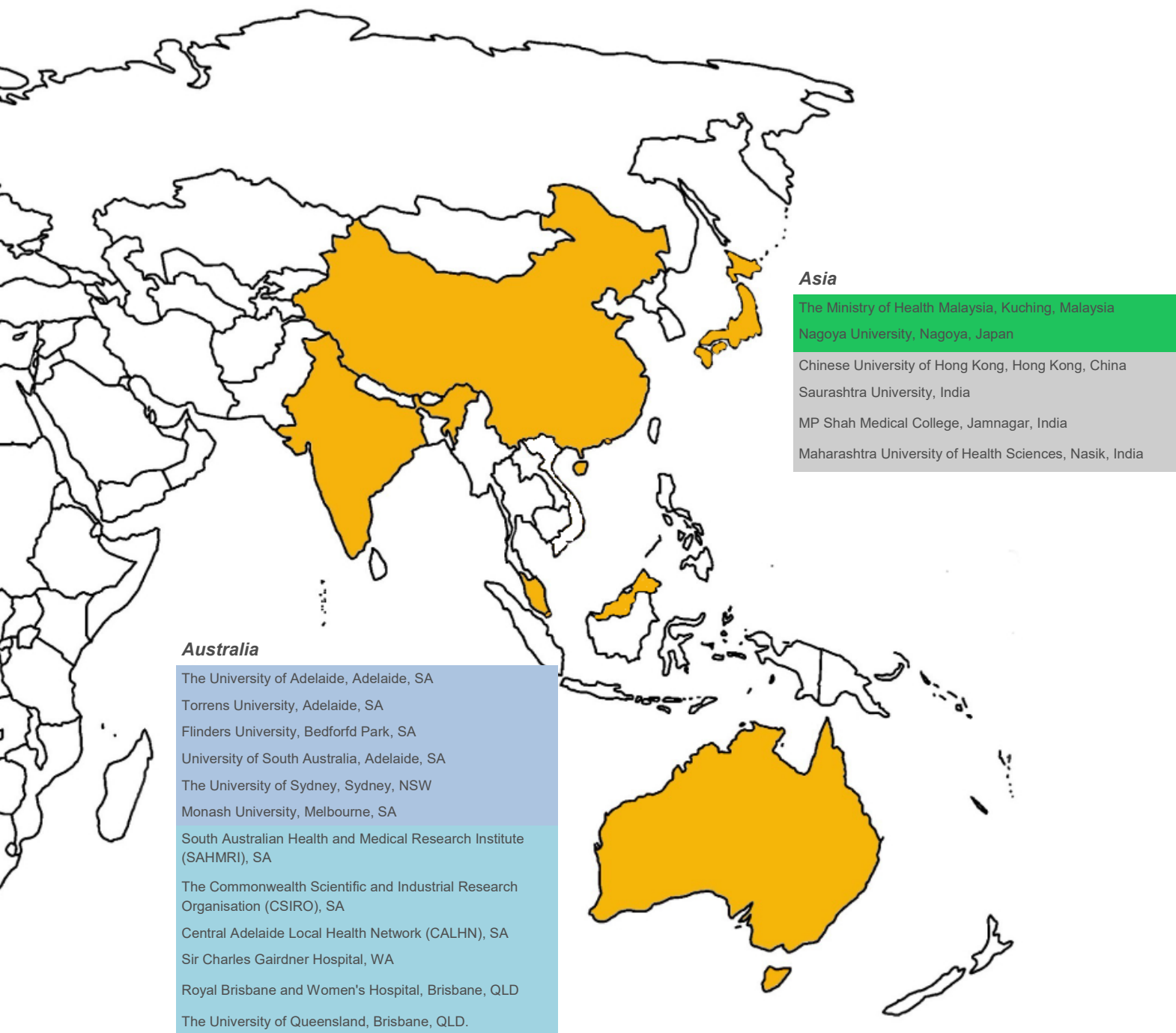


Top Left: Dr John Beard (4th from right) former director of WHO Ageing mentors post graduate students and early career researchers during a visit in 2019. Right: A/ Prof Solomon Yu and Dr Agathe Jadczak attend the 2019 International Conference on Frailty and Sarcopenia in Miami. Bottom Left: Dr Mark Thompson (right) wins Best Oral Presentation at the 2019 TQEH Research Expo.

Global Network of CRE Frailty & Healthy Ageing

The CRE brings together investigators and research students from all major inhabited continents in the world.





Australia

The University of Adelaide, Adelaide, SA
Torrens University, Adelaide, SA
Flinders University, Bedford Park, SA
University of South Australia, Adelaide, SA
The University of Sydney, Sydney, NSW
Monash University, Melbourne, SA
South Australian Health and Medical Research Institute (SAHMRI), SA
The Commonwealth Scientific and Industrial Research Organisation (CSIRO), SA
Central Adelaide Local Health Network (CALHN), SA
Sir Charles Gairdner Hospital, WA
Royal Brisbane and Women's Hospital, Brisbane, QLD
The University of Queensland, Brisbane, QLD.

Asia

The Ministry of Health Malaysia, Kuching, Malaysia
Nagoya University, Nagoya, Japan
Chinese University of Hong Kong, Hong Kong, China
Saurashtra University, India
MP Shah Medical College, Jamnagar, India
Maharashtra University of Health Sciences, Nasik, India

Awards and Recognitions

Recipient

Award Type

2020

Thompson M	Dean's Commendation for Doctoral Thesis Excellence
Martins B	Dean's Commendation for Doctoral Thesis Excellence

2019

Dollard J	2019 Faculty of Health and Medical Sciences Research Travel Award,
Dollard J	SA Health: Minister's Research and Innovation Award: Finalist
Dollard J	2019 THRF Travel Award
Jadczak AD	2019 Faculty of Health and Medical Sciences Research Travel Award,
Jasper U	The Queen Elizabeth Hospital Research Expo 2019 - Best Lay Description
Taylor D	Scholarship to attend Developing Positive Partnership Course
Thompson M	The Queen Elizabeth Hospital Research Expo 2019 - Best Presentation
Thompson M	Rising Star Best Publication Award - Australian and New Zealand Sarcopenia & Frailty
Visvanathan R	Venkoba Rao Oration Medal
Visvanathan R	Fellowship - Australian Association of Gerontology 2019
Yadav L	Adelaide Medical School Research Travel Awards 2019
Yadav L	Adelaide Graduate Centre Research Travel Scholarship 2019
Yadav L	Walter and Dorothy Duncan Trust Conference Travel grant 2019

2018

Afzali H	Best Presentation Award- 20th International Conference in Applied Health Economics
Jadczak AD	Robert Penhall Research Award Australian Association of Gerontology
Jadczak AD	Travel Grant- University of Adelaide- Faculty Health Science
Jasper U	International Wildcard Scholarship- University of Adelaide
Taylor D	Scholarship - Thinkwell early and mid-career professional development – Year long coaching program funded by Faculty of Health and Medical Sciences

2017

Lawless M	2017 Dean's Commendation for Doctoral Thesis Excellence
Martins B	2017 THRF Travel Award
Dollard J	2017 THRF Travel Award
Ambagtsheer R	2017 Torrens University Travel Award

Research Funding

Utilising the funding awarded by the NHMRC to the Centre of Research Excellence in Trans-Disciplinary Frailty Research to Achieve Healthy Ageing we were able to carry out research, collect knowledge and apply for additional research funding support. The additional funding leveraged by the team is 4.7 times the initial investment to the CRE which will allow us to further expand our research.

Cumulative Research Funding

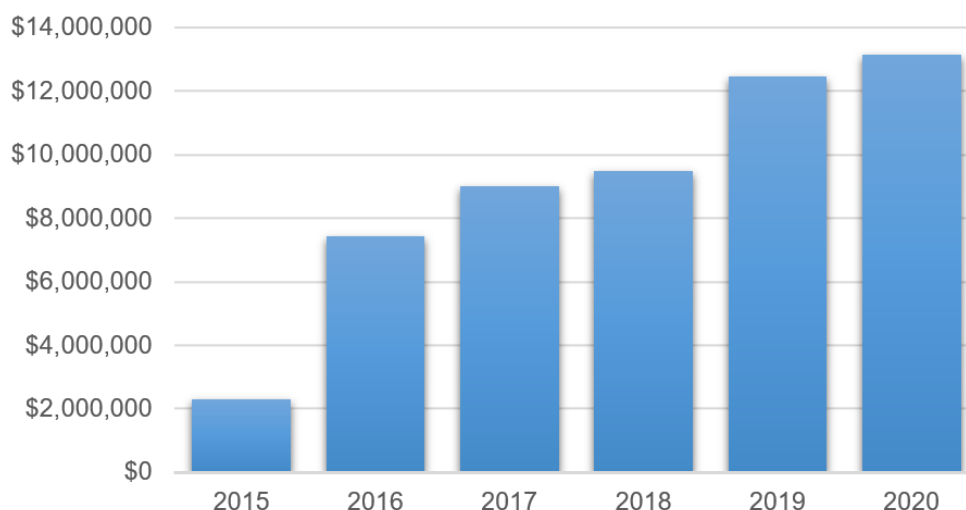


Figure 1: Cumulative research funding awarded to the CRE

Research Grants

Team	Grant title	Years	Yrs	Amount
Category 1: Australian Competitive Grants				
Faulkner D, Barrie H , Tually S, Sharam A, James A.	The Australian Housing and Urban Research Institute (AHURI): Inquiry into Housing Older Australians	2020-2021	2	\$594,194
Maddern G, Inacio M, Visvanathan R , Karnon J	The Medical Research Future Fund (MRFF): Mobile X-ray services provided within Residential Aged Care Facilities	2019 -2021	3	\$1,970,000
Brown A, Braunack-Mayer A, Barrie H , Davy C.	NHMRC Targeted Research Call: Designing Indigenous aged care with a 'whole of community' perspective	2019-2021	3	\$720,000
Faulkner D, Tually S, Barrie H , Cornell V, Lui, Judd B, Cook P & Verdouw J.	The Australian Housing and Urban Research Institute: Public housing- an effective and appropriate tenure for ageing well?	2019-2020	1	\$148,006
Soebarto V, Pisaniello D, Zuo J, Williamson T, Hansen A, Visvanathan R , van Hoof J	ARC: Improving thermal conditions in housing to support ageing in place	2018-2020	3	\$ 413,000
Visvanathan R , Karnon J , Beilby J , Kitson A , Barrie H , Bell M , Cameron I .	NHMRC Trans-Disciplinary Frailty Research To Achieve Healthy Ageing	2016 - 2020	5	\$2,301,169
Visvanathan R	Premiers Research and Industry Fund: Consortium. Sub Project: Frailty in Residential Sector over Time (FIRST) Study	2016 - 2020	5	\$4,000,000

Team	Grant title	Start Date	Yr	Amount
Category 2: Other Public Sector Research Income				
Barrie H, Faulkner D.	Co-designing Age Friendly Cities through Citizen Science	2020 - 2021	1	\$30,000
West CH, Rieger K, Kenny A, Dusome D, Schulte F, Pelletier W, Crysdale J, Winsor J, Lobchuk M, Archibald M.	Funding: Children's Hospital Research Institute of Manitoba Operating Grant	2019 - 2020	1	\$60,000
Lawless M	Caring Futures Institute Accelerator Grant (Flinders University): Frailty and healthy ageing in online communities: a knowledge translation approach and mixed-methods netnographic study	2019 -2 020	1	\$3,100
Pinero de Plaza MA	Making the invisible visible: a care agency study about the inclusion of frail and housebound/ bedbound people	2019 - 2020	1	\$4,000
Barrie H, Lange J & Soebarto V	Citizen Science for a Greener Adelaide	2019 - 2020	1	\$30,000
Barrie H, Soebarto V, Lange J	Green Spaces, public spaces and ageing well	2018 - 2019	1	\$30,000
Barrie H, Burgess T, Braunack-Mayer A &	Social, ethical and economic considerations of smart technologies for ageing well	2018 - 2019	1	\$30,000
Brown A, Braunack-Mayer A, Barrie H, Davy C.	Culturally Safe Workforce Models for Rural and Remote Indigenous Organisations	2017 - 2019	2	\$1,100,000
Barrie H, McDougall K.	Retired not Expired: an examination of ageism in SA	2017 - 2018	1	\$30,000
Category 3: Industry and Other Research Income				
Archibald M, Sellers E.	University Collaborative Research Program	2020 - 2023	3	\$25,000
Jasper U, Dollard J, Chehade M	AAG Research Trust - 2020 RM Gibson Research Fund: Evaluating the impact of a co-created video	2020 - 2021	1	\$7,000
Lawless M	AAG Research Trust - 2020 RM Gibson Research	2020 - 2021	1	\$7,000
Afzali H, Karnon J, Visvanathan R.	Economic burden of frailty in Australia	2020 - 2021	1	\$24,800
Jasper U, Dollard J.	Evaluating the impact of a co-created video	2020 -2021	1	\$7,000
Archibald M, Feo R, Conroy T, Kitson A.	Establishment Grant, CNHS, Flinders University	2019 - 2020	1	\$8,000
Pinero De Plaza, M, Archibald M, Lawless M, McMillan P, Hallmann G, Pagano J, Kitson A.	Caring Futures Institute Accelerator Grant (Flinders University): Making the invisible visible: A care agency study about the inclusion of frail and homebound/bedbound people.	2019 - 2021	2	\$4,000
Archibald M, Ambagtsheer RC.	Australian Association of Gerontology 2019 RM Gibson Research Fund: Mobilising Research	2019 - 2020	1 ye	\$7,000
Murray J, Lewis A, Conroy T, Hunter S, Kitson A.	SA Dental Service REDUCE (tRanslating knowLEDge for fUndamental CarE) missed oral healthcare: it takes a team	2019 - 2021	2	\$19,646

Team Continued	Grant title	Start Date	Yr	Amount
Taylor D	Hospital Research Foundation Mid-Career Fellowship: Inequalities in Neighbourhood	2017-2020	3	\$420,000
Taylor D, Barrie H	Resthaven Inc - Adelaide Geriatrics Training & Research with Aged Care Centre	2017- 2018	1	\$10,000
Archibald M	Resthaven Inc - Adelaide Geriatrics Training & Research with Aged Care Centre	2017- 2018	1	\$10,000
Ambagtsheer R	Resthaven Inc - Adelaide Geriatrics Training & Research with Aged Care Centre	2017- 2018	1	\$10,000
Taylor D, and Lange J	Central Adelaide Local Health Network, SA Health –Spatial analysis of emergency department use by	2017- 2018	1	\$10,000
Visvanathan R	The Hospital Research Foundation Challenge Grant: Trans-Disciplinary Frailty Research To	2016 - 2020	5	\$625,000

Other Research Support Funding

Visvanathan R, Karnon J, Beilby J, Kitson A, Barrie H, Bell M, Cameron I.	University of Adelaide Trans-Disciplinary Frailty Research To Achieve Healthy Ageing	2016 - 2020	5	\$500,000
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Pictured - Prof Jean Woo (CUHK) at right speaking at the official launch of CRE in Frailty and Healthy Ageing, Fri 30th Sep, 2016.

Peer reviewed publications

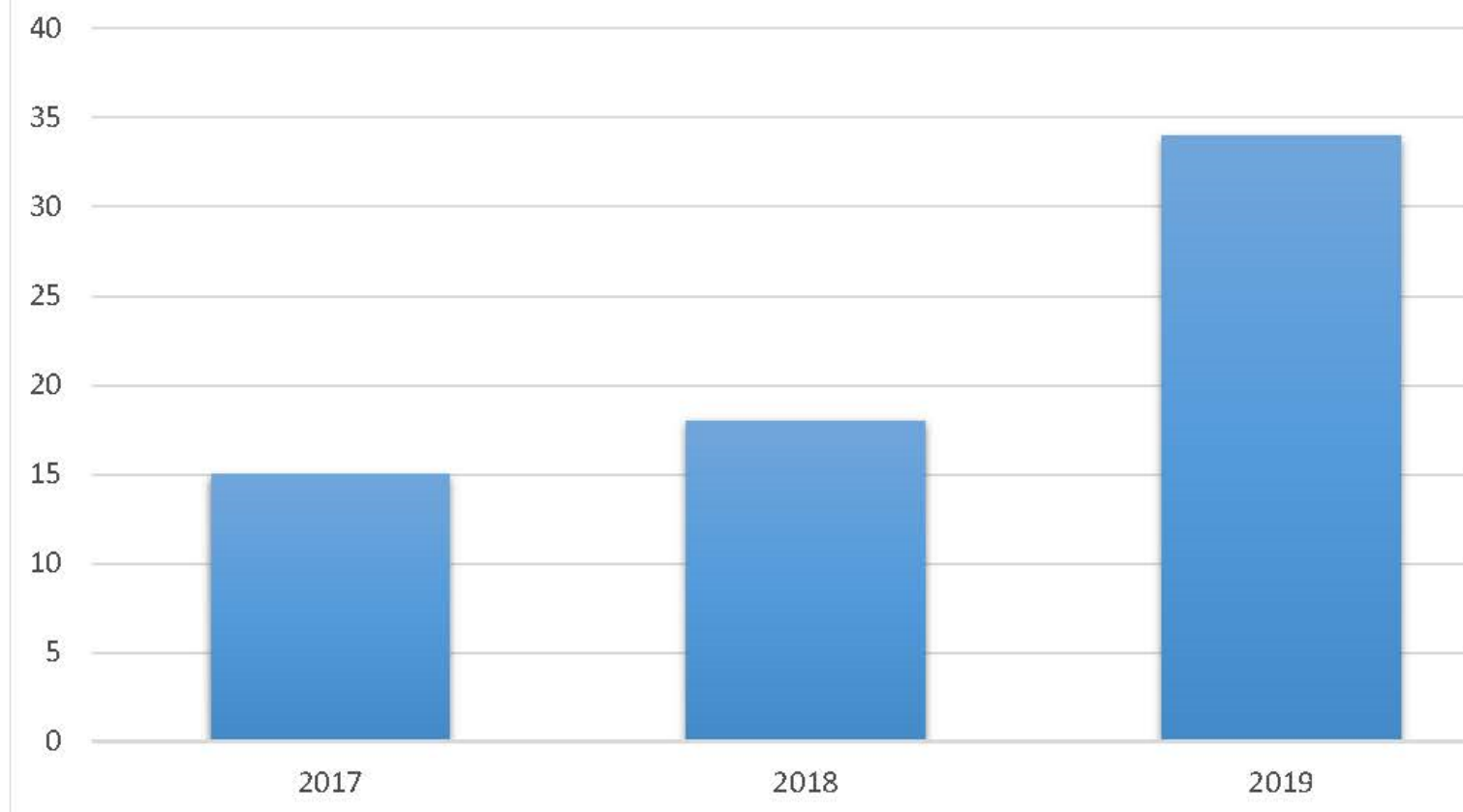


Figure 2: No of peer reviewed publications per year.

Peer Reviewed Publications 2019

1. **Afzali H, Karnon J, Theou O, Beilby J, Cesari M, Visvanathan R.** Structuring a conceptual model for cost effectiveness analysis of frailty interventions. PLoS ONE. 2019;14(9), e0222049.
2. **Ambagtsheer R, Beilby J, Visvanathan R, Dent E, Yu S, Braunack Mayer A.** Should we screen for frailty in primary care settings? A fresh perspective on the frailty evidence base: A narrative review. Preventive Medicine. 2019;119,63-69. doi:10.1016/j.ypmed.2018.12.020.
3. **Ambagtsheer R, Visvanathan R, Dent E, Yu S, Schultz T, Beilby J.** Commonly used screening instruments to identify frailty among community-dwelling older people in a general practice (primary care) setting: a study of diagnostic test accuracy. The journals of gerontology. Series A, Biological Sciences and Medical Sciences. 2019. doi:10.1093/gerona/glz260.
4. **Ambagtsheer R, Archibald M, Lawless M, Mills D, Yu S, Beilby J.** General practitioners' perceptions, attitudes and experiences of frailty and frailty screening Australian Journal of General Practice Jun-2019. 48, 426-433
5. **Ambagtsheer R, Casey M, Schultz T, Thompson M, Archibald M.** Diagnostic Test Accuracy of Self-Reported Screening Instruments in Identifying Community-Dwelling Older People at Risk of Frailty: A Systematic Review Geriatrics and Gerontology International 14 Nov 2019. 20,14-24
6. **Ambagtsheer R, Beilby J, Seiboth C, Dent E.** Prevalence and associations of frailty in residents of Australian aged care facilities: findings from a retrospective cohort study Aging Clinical and Experimental Research 2019 Nov 4:1-8
7. **Ankeny R, Barrie H.** Learning not just from but with citizens: The importance of co-design in health-related social research. The American Journal of Bioethics. Volume 19, 2019 - Issue 8 Pages 54-56 |

8. **Archibald M, Ambagtsheer R**, Casey M, **Lawless M**. Using ZOOM video conferencing for qualitative data collection: Perceptions and experiences of researchers and participants. *International Journal of Qualitative Methods* Feb 2019. 18, 1-8
9. **Archibald M, Kitson A**. Using the Arts for Awareness, Communication and Knowledge Translation in Older Adulthood: A Scoping Review. *Arts and Health: An International Journal for Research Policy and Practice*. May 2019. 1-17
10. **Archibald M**, Scott S. Learning from Usability Testing of an Arts-Based Knowledge Translation Tool for Parents of a Child with Asthma Nursing Open. Sep 2019. 6, 1615-1625
11. **Barrie H**, Soebarto V, Lange J, McCorry-Breen F, Walker L. Using Citizen Science to Explore Neighbourhood Influences on Ageing Well: Pilot Project MDPI Healthcare 7 (4) Special Issue: Creating age-friendly communities: Housing and technology Healthcare (Basel). 2019 Nov 1;7(4):126.
12. **Datta Gupta A, Visvanathan R, Cameron ID**, Koblar S, Howell S, Wilson D. Efficacy of Botulinum Toxin A in Modifying Spasticity to Improve Walking and Quality of Life in Post-Stroke Lower Limb Spasticity - a Randomized Double-blind Placebo Controlled Study. *BMC Neurology*. 2019 May 11;19(1):96.
13. Dent E, **Morley JE**, Cruz-Jentoft AJ, Waters DL, Vellas B. Physical Frailty: ICFSR International Clinical Practice Guidelines for Identification and Management. *Journal of Nutrition, Health and Aging* 2019, 23(9); 771-787
14. **Hendrix I**, Page A, **Korhonen M**, **Bell J**, Tan E, **Visvanathan R**, Cooper T, Robson L, Sluggett J. Patterns of high-dose and longterm proton pump inhibitor use: A cross-sectional study in six South Australian residential aged care services. *Drugs Real World Outcomes*. 2019 Sep;6(3):105-113.
15. Inacio MC, **Visvanathan R**, Lang CE, **Amare A**, Harrison SL, Wesselingh S. Pain in Older Australians Seeking Aged Care Services: Findings From the Registry of Older South Australians (ROSA). *J Am Med Dir Assoc*. 2019 Mar 6. pii: S1525-8610(19)30154-9. doi:10.1016/j.jamda.2019.01.127 [Epub ahead of print].
16. Inacio M, Bray S, Whitehead C, Corlis M, **Visvanathan R**, Evans K, Griffith E, Wesselingh S. Registry of Older South Australians (ROSA): framework and plan. *BMJ Open*. 2019 Jun;9(6):e026319.
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Below- Dr Joanne Dollard with a patient at TQEH.



Research Communication Events

Research Showcase

Title	Date	Attendees
Healthy Ageing: Every Step Matters	Thu 12th Sep 2019	110
The Science of Healthy Ageing Research Showcase	Wed 1st Aug 2018	107
Frailty & Healthy Ageing Research Showcase	Fri 8th Sep 2017	95

Right: Crowds attending the 2018 Research Showcase.

Right (lower): Dr Mark Thompson, Dr Beatriz Martins and Dr Danielle Taylor at the research showcase event in 2019. Prof

Below: Renuka Visvanathan presents her research to a table of guests at the 2019 event.



Aged & Extended Care Services/GTRAC/CRE Seminars

Speaker	Title	Date
Dr Joanne Dollard	Acceptability of the Ambient Intelligent Geriatric Management (AmbIGeM) system: a technological solution to prevent in-patient fall.	15 Nov 2019
Dr Bavand Bikdeli	Clinical Characteristics and Outcomes of Venous Thromboembolic Events after Hallux Valgus Surgery: Insights from the RIETE Registry.	15 Nov 2019
Dr James Smyth	Perspectives of emergency physicians on frailty.	16 Aug 2019
Dr Shasti Smith	Frailty, Hip fractures and Outcomes.	19 Jul 2019
Dr Danielle Taylor	Geography of Frailty.	19 Jul 2019
Dr Lalit Yadav	E- health Management and Personalised health systems to support Orthogeriatric services and promote patient Well-being, Engagement and Rehabilitation (EMPOWER): a mixed methods study.	17 May 2019

Organiser	Event	Date
Dr Mandy Archibald	Consumer Perspectives as the Basis for Knowledge Translation in Frailty and Healthy Ageing.	15 Mar 2019
Dr Beatriz Martins	Nagoya Longitudinal Study – Updates from Japan.	15 Mar 2019
Dr Sally Ahip	The Malaysian Pictorial Fit-Frail Scale (M-PFFS): Development and Testing of Feasibility, Validity and Reliability In Malaysia. BHI, Wood-	15 Feb 2019
Mr Unyime Jasper	The hip fracture SMART-MOVE study	15 Feb 2019
Dr Anupam Datta Gupta	Healing Hands- management of hand ulcers caused by focal spasticity- a case series.	21 Sep 2018
Dr James Smyth	The utility of assessments of frailty and activities of daily living of emergency department patients from nursing homes	21 Sep 2018
Mr Mark Thompson	The dynamic nature of frailty, and the importance of regular review. Findings from NWAHS.	17 Aug 2018
Dr Kareeann Khaw	Updates on blood transfusion and outcomes after hip fracture surgery in older adults.	17 Aug 2018
Dr James Smyth	Roles of frailty and ADL assessments vis a vis transfer of nursing home residents to the emergency department.	16 Feb 2018
Dr Bavand Bikdeli	Use of Prophylaxis for Prevention of Venous Thromboembolism in Patients with Isolated Foot or Ankle Surgery. A systematic review and me-	16 Feb 2018
Dr Danielle Taylor	Towards Mapping Frailty Risk	19 Jan 2018
Dr Beatriz Martins	Built Environment and Frailty: Understanding the influence of neighbourhoods on older people's health	19 Jan 2018
Dr. Catalin Tufanaru	Statistical Misconceptions in Evidence-Based Medicine	21 Apr 2017
Dr Sally Suriani Ahip	The Development and Testing of Feasibility, Validity and Reliability of a novel frailty screening tool: The Malaysian Pictorial Fit Frail Scale (M-PFFS) and future implementation plans in the Malaysian Primary Health Care System	21 Apr 2017
Dr Ashleigh Smith	Cognitive Training	17 Feb 2017
Dr James Smyth	Transfers of fully dependent nursing home residents to the emergency department.	20 May 2016

Newsletters Edition

Date

Newsletter

Apr 2020

Newsletter

Nov 2018

Newsletter

Jun 2018

Newsletter

Nov 2017

Newsletter– Launch edition

Mar 2017

Special Edition– General Practice

Aug 2020

Special Edition– Gerontology Research

June 2019

Special Edition– Pharmacy Research

Dec 2017

Right: TQEH Research Expo 2019 PhD student Unyime Jasper (pictured far right) won the Best Lay Description award.

Below Left: Prof Renuka Visvanathan, Dr Beatriz Martins with visiting Prof Mazafumi Kuzuya (Institute of Innovation for Future Society, Nagoya University) 2018.

Below Right: 2018 student and Early Career Researcher Mentoring Session: hosted by Prof Justin Beilby pictured far right back row.



Right: TQEH 2017 Research Day Hon Mark Butler MP meets with Dr Agathe Jadczak, Dr Danielle Taylor, Dr Kandiah Umapathysivam, Prof Renuka Visvanathan, Dr Beatriz Martins, Dr Clare McNally, Dr Joanne Taylor and Dr James Smythe.

Below Left: From left Dr Rachel Ambagtsheer, Dr Ruby Ho-Yan Yu (Chinese University of Hong Kong), Dr Helen Barrie and Dr Joanne Dollard

Below right: Women of Impact and Influence Breakfast with the University of Adelaide. From left Kate Freebairn, Prof Renuka Visvanathan, Prof Helen Marshall & Dr Kate Vandyke



Right: Dr Mandy Archibald (right) wins the 2018 Perform Your Science Award for 'At my age: Exploring experiences and understandings of frailty through performance arts'.

Below Left: 2020 Dr Danielle Taylor shared her research on Coast FM radio. Pictured L to R: Radio host Dave Hearn, Dr Danielle Taylor, Antonia Costa (THRF), radio host Barry Gower

Below Right: 2019 the Minister for Health and Wellbeing visited the CRE Frailty & Health Ageing to hear the research taking place. Pictured L to R: Prof Justin Beilby, The Hon Stephen Wade MLC Emeritus Professor Derek Frewin OA, Prof Renuka Visvanathan, Mr Matthew McInnes (SA Health) and A/Prof Solomon Yu.





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