

NURSING RESEARCH INSTITUTE

2021 ANNUAL REPORT

2021

AT A GLANCE

NURSING RESEARCH INSTITUTE

25
NRI STAFF

22
NRI CLINICIAN
RESEARCHERS

11
NRI GRANTS
IN 2021

4 X CATEGORY 1 GRANTS
3 X CATEGORY 2 GRANTS
4 X CATEGORY 3 GRANTS

TOTAL NRI FUNDS AWARDED 2021
\$48,033,657

35
NRI PEER-
REVIEWED
PUBLICATIONS
IN 2021

206
TOTAL SINCE 2009

29
RESEARCH
PROJECTS
IN 2021

15
RESEARCH
PROJECTS
WITH SVH
PARTNERS

ALLIED HEALTH RESEARCH UNIT

22
ALLIED HEALTH
CLINICIAN RESEARCHERS

37
ALLIED HEALTH
PEER-REVIEWED
PUBLICATIONS
IN 2021

4 ALLIED HEALTH
GRANTS IN 2021

FUNDS AWARDED
\$438,000

4 CATEGORY 3 GRANTS

18
RESEARCH
PROJECTS IN 2021

NRI WITH ALLIED HEALTH • CONFERENCES AND EDUCATIONAL PROGRAMS

10
SEMINARS
338
ATTENDEES

9
WORKSHOPS
375
ATTENDEES

18
CONFERENCES
41
PRESENTATIONS

About us

The Nursing Research Institute (NRI) is a collaboration between St Vincent's Health Network Sydney, St Vincent's Hospital Melbourne and Australian Catholic University (ACU).

The NRI is a highly productive research collaborative with a national and international reputation for conducting rigorous, nurse-led, multidisciplinary health services and implementation science research. Our main research focus is to identify the best ways to promote the translation of evidence into clinical practice with the overall goal of improving patient outcomes and health systems.

Since 2009, the NRI has brought together researchers and clinicians to conduct clinically relevant research. Our researchers have a broad range of research expertise, and collaborate with world-class national and international researchers, multidisciplinary clinicians and policy makers.

OUR MISSION

- Conduct high-quality, multidisciplinary health research focused on improving patient outcomes and research translation.
- Build research capacity through training and mentoring of research students, clinicians and career researchers.
- Advise, collaborate and consult on health services and translational research with clinicians, the health industry, government and consumers.
- Create and sustain a collegiate, supportive and high-performance research culture to attract world-class researchers and research students.





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Directors' Report

Welcome to the 2021 Annual Report for the Nursing Research Institute (NRI).

As Australia continued to navigate the global pandemic, we remained flexible and innovative in responding to the challenges to our program of research. In 2021, the NRI team consisted of **25 core staff**, located across New South Wales, the Australian Capital Territory and Victoria. The team worked on **29 projects**, of which 15 directly involved our partners, St Vincent's Health Network Sydney and St Vincent's Hospital Melbourne. Working with our esteemed national and international research partners, we received **11 new grants** totalling over **\$48.03M**. Three of these grants were funded by the National Health and Medical Research Council (NHMRC). NRI researchers were first or co-authors on **35 publications** in high-impact journals. In this report we showcase the NRI staff, students, clinician researchers, research projects, funding awarded, peer-reviewed publications, presentations, and other achievements from 2021.

Highlights include:

■ **Professor Sandy Middleton** is an investigator on The Australian Stroke Alliance's 'The Stroke Golden Hour research project'. The \$40 million grant awarded to the University of Melbourne will be used to develop and install lightweight brain scanners that are more transportable for emergency vehicles on the road and in the air for patients with suspected stroke.

- **Professor Middleton** was also acknowledged on International Women's Day by the World Stroke Organisation Board as one of 16 outstanding women (from 70 nominations) who made important contributions to the field of stroke.
- **Professor Elizabeth McInnes** is an investigator on a newly awarded NHMRC Centre of Research Excellence (CRE) in Wiser Wound Care, and we welcomed **Dr Angela Wan** as the NRI-based CRE Research Fellow.
- **Simeon Dale**, NRI Clinical Research Fellow, was profiled by ACU on International Women's Day as an inspiring woman leader in health services research in acknowledgement of her work as trials manager of complex projects.
- **Dr Oyebola Fasugba**, NRI Senior Research Officer, was awarded best poster prize at this year's Aikenhead Centre for Medical Discovery Research Week. The poster was on her research, 'Barriers and enablers to implementation hospital-acquired urinary tract infection prevention strategies: a qualitative study using the theoretical domains framework.' This work was published in the top-tier *Journal of Hospital Infection* in April 2021.
- **Dr John Rihari-Thomas**, Post-Doctoral Research Fellow, Project Manager of the ACCELERATE Trial, was presented with the St Vincent's Health Network Sydney Nursing Research Award on International Nurses Day 2021.

Directors' Report continued

- **Allied Health Research Unit Report** – this year for the first time we showcase the outputs of St Vincent's Health Network Sydney's Allied Health Research Unit, established in 2019 and coordinated by **Dr Lauren Christie**, Allied Health Senior Implementation Science Research Fellow. Dr Christie is mentored by Professor Middleton and working to build the Allied Health research program at SVHNS.
- **Dr Lauren Christie**, was awarded a Stroke Foundation 2021 Early Career Researcher Seed Grant to conduct her study entitled, 'RESCITE: REmote Constraint Induced Therapy of the upper Extremity: An implementation study.'
- **Clinical Associate Professor Margaret Lazar**, Executive Director Allied Health, St Vincent's Health Network Sydney, received the honorary title of ACU Clinical Associate Professor, in acknowledgement of her involvement in the partnership between the NRI and St Vincent's Health Network Sydney's Allied Health Research Unit.

■ **Patty Zenonos**, NRI Senior Executive Officer and Project Manager, was awarded a peer-nominated 2021 School of Nursing, Midwifery and Paramedicine School Values Award. The award was in recognition of her work in demonstrating ACU's value of dignity. Ms Zenonos was acknowledged for always respecting the value and work of each person in her interactions, relationships and partnerships.

Thank you again to our funders, collaborators and hospital partners for another productive year and we look forward to many more years of ongoing and mutual partnerships. We hope you enjoy reading the NRI's year in review for 2021.

Professor Sandy Middleton
Director

Professor Elizabeth McInnes
Deputy Director



Professor Sandy Middleton
Director



Professor Elizabeth McInnes
Deputy Director

Governance

The Steering Committee meets biannually to govern and monitor the NRI's strategic direction. The Management Committee meets three times a year to discuss NRI operational management.

St Vincent's Health Australia

NRI STEERING COMMITTEE ONLY



Adjunct Professor Anthony Schembri AM
(2021 Chair – Steering Committee)
Chief Executive Officer
St Vincent's Health Network Sydney



Adjunct Professor Angela Nolan
Chief Executive Officer
St Vincent's Hospital Melbourne



Clinical Associate Professor Margaret Lazar
Executive Director of Allied Health
St Vincent's Health Network Sydney

NRI MANAGEMENT COMMITTEE ONLY



Joanne Taylor
Nurse Manager Clinical Practice and Innovation
St Vincent's Hospital Sydney



Greta Dunn (from Aug 2021)
Nursing and Operations Manager
St Joseph's Hospital Sydney



Lauren Culbert (Jan–July 2021)
Nursing and Operations Manager
St Joseph's Hospital Sydney

NRI STEERING AND MANAGEMENT COMMITTEES



Adjunct Professor Anna Thornton
(2021 Chair – Management Committee)
Executive Director of Nursing
St Vincent's Health Network Sydney

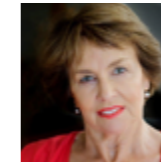


Adjunct Professor Kathryn Riddell
Chief Nursing Officer
St Vincent's Hospital Melbourne

NRI Governance continued

External

NRI STEERING COMMITTEE



Professor Judy Lumby AM
Emeritus Professor, University of Technology Sydney
Honorary Professor, University of Sydney and University of Adelaide

Australian Catholic University

NRI STEERING COMMITTEE



Professor Suzanne Chambers AO
(from Aug 2021)
Executive Dean
Faculty of Health Sciences, Australian Catholic University



Professor Justin Kemp
(Jan–July 2021)
Acting Executive Dean
Faculty of Health Sciences, Australian Catholic University



Professor James McLaren
Interim Deputy Vice-Chancellor
Research and Enterprise
Office of the Deputy Vice-Chancellor (Research and Enterprise)
Australian Catholic University

NRI MANAGEMENT COMMITTEE



Professor Karen Nightingale
National Head of School
School of Nursing, Midwifery and Paramedicine
Australian Catholic University



Associate Professor Elisabeth Jacob
Head of School
School of Nursing, Midwifery and Paramedicine (VIC)
Australian Catholic University



Associate Professor Cathy Dickson
Head of School
School of Nursing, Midwifery and Paramedicine (NSW/ACT)
Australian Catholic University

NRI Staff

DIRECTOR



Professor Sandy Middleton

DEPUTY DIRECTOR



Professor Elizabeth McInnes

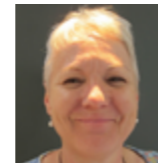
Researchers / NRI Sydney



Heilok Cheng
Research Officer
(Casual)



Dr Lauren Christie
Allied Health Senior
Implementation Science
Research Fellow, St
Vincent's Health
Network Sydney



Simeon Dale
Clinical Research
Fellow and Trials
Manager



Gail Del Olmo (from Aug 2021)
Nursing Executive Officer, Maridulu Budyari Gumat Sydney
Partnership for Health, Education, Research and Enterprise
Implementation Science Research, St Vincent's Hospital Sydney



Dr Oyebola Fasugba
Senior Research
Officer (Part-time)



Joylynn Israel
Research Officer
(Part-time)



**Mark Liu
(from May 2021)**
Research Officer
(Part-time)



**Dr Cintia Martinez-
Garduno (Jan-April
2021)**
Research Officer
(Part-time)



Benjamin McElduff
Research Officer/
Statistician (Part-time)



**Dr Tanya Pritchard
(Jan-Oct 2021)**
Research Officer



**Dr John Rihari-
Thomas**
Post-Doctoral
Research Fellow,
ACCELERATE Trial



**Lucy Tait (Jan-May
2021)**
Nursing Executive
Officer, Maridulu
Budyari Gumat Sydney
Partnership for Health,
Education, Research
and Enterprise
Implementation
Science Research, St
Vincent's Hospital
Sydney



Susan Whittam
Clinical Nurse
Consultant -
Implementation
Research,
ACCELERATE Trial,
St Vincent's Hospital
Sydney



**Dr Hairong Yu
(from June 2021)**
Senior Research
Officer (Casual)

NRI Staff continued

Researchers / NRI Melbourne



Dr Kathleen Bagot
Research Officer
(Casual)



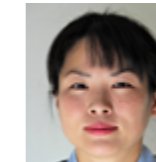
Kelly Coughlan
Research Officer
(Part-time)



Alysia Coventry
Senior Research
Officer (Part-time)



Jake McMahon
St Vincent's Hospital
Melbourne Research
Coordinator,
ACCELERATE Trial



Mika Musgrave-Takeda
Research Assistant
(Volunteer)



Dr Angela Wan
Research Fellow,
National Health and
Medical Research
Council (NHMRC)
Centre of Research
Excellence in Wiser
Wound Care



Administration



Tara Doyle
Personal Assistant to
the Director of NRI
(Maternity leave)



Joylynn Israel
Personal Assistant to
the Director of NRI
(Part-time)



Carmel Parker
Personal Assistant to the
Director of NRI (Part-
time)



Patty Zenonos
Institute Manager

NRI Clinician Researchers

St Vincent's Hospital Network Sydney



Monica Bexton
Clinical Nurse Consultant, Renal Ambulatory Care, St Vincent's Hospital Sydney
Peritoneal dialysis patients' health and well-being and satisfaction with care



Associate Professor Amanda Jane Currie
Nurse Practitioner, St Vincent's Hospital Sydney and Queensland University of Technology
Optimising the Scope of Practice of Nurses Providing Healthcare to People Experiencing Homelessness



Julie Gawthorne
Clinical Nurse Consultant, Emergency Department, St Vincent's Hospital Sydney
Maridulu Budyari Gugal Sydney Partnership for Health, Education, Research and Enterprise Implementation Science Research Platform



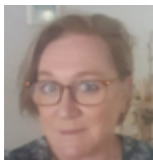
Lucy McWilliams
Vulnerable Persons Clinical Nurse Consultant, Homeless Health Service, St Vincent's Hospital Sydney
Optimising the Scope of Practice of Nurses Providing Healthcare to People Experiencing Homelessness



Kirsty Page
Clinical Nurse Consultant, St Vincent's Hospital Sydney
TEXAIS: Post-stroke hyperglycaemia – Treatment with Exenatide in Acute Ischaemic Stroke trial
AVERT-DOSE (Determining Optimal early rehabilitation after Stroke): A multi-arm covariate-adjusted, response-adaptive randomised controlled trial



Lisa Paquin
Clinical Nurse Consultant, Renal Ambulatory Care, St Vincent's Hospital Sydney
Peritoneal dialysis patients' health and well-being and satisfaction with care



Jane Rodgers
Clinical Nurse Consultant, Wound Care, St Vincent's Hospital Sydney
National Health and Medical Research Council Centre of Research Excellence in Wiser Wound Care

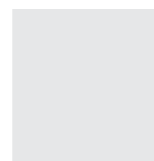
St Vincent's Hospital Melbourne (SVHM)



Kim Chaote
Nurse Practitioner Pain Management, Department of Anaesthesia and Acute Pain Medicine, St Vincent's Hospital Melbourne
Nurse led pre-operative pain clinic



Julie-Ann Martin
Clinical Nurse Specialist, Intensive Care Unit, St Vincent's Hospital Melbourne
Sleep quality in the Intensive Care Unit



Laura Montgomery
Registered Nurse, St Vincent's Hospital Melbourne
Improving non-technical skills in emergency response teams – implementation of a novel debriefing training model in an acute ward setting



Dr Lauren Sanders
Neurologist, St Vincent's Hospital Melbourne
TEXAIS: Post-stroke hyperglycaemia – Treatment with Exenatide in Acute Ischaemic Stroke trial



Nicole Sellar
Registered Nurse, Intensive Care Unit, St Vincent's Hospital Melbourne
Operational barriers and enablers to the escalation of care and management of deteriorating patients before a MET call is required

NRI Clinician Researchers continued

SVHM Research Interest Group Members



Leanne Barbazza
ICU Research Coordinator, St Vincent's Hospital Melbourne



Leslie Coo
Clinical Nurse Specialist, Geriatric Evaluation and Management, St George's Health Service



Kelly Coughlan (Co-Chair)
Research Officer, Nursing Research Institute



Alysia Coventry (Co-Chair)
Senior Research Officer, Nursing Research Institute



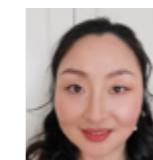
Jessica Demajo
Myeloma Nurse Coordinator, Haematology, St Vincent's Hospital Melbourne



Danila Durante
Librarian, St Vincent's Hospital Melbourne



John Forster
Mental Health Nurse Consultant, St Vincent's Hospital Melbourne



Shaoyun Guan
Registered Nurse, St Vincent's Hospital Melbourne



Katherine McBrearty
Practice Development Nurse, St Vincent's Hospital Melbourne



Professor Elizabeth McInnes
Deputy Director, Nursing Research Institute



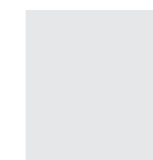
Jake McMahon
SVHM Research Coordinator
ACCELERATE Trial, Nursing Research Institute



Virginia Walker
Manager (Acting), Early Career Programs, St Vincent's Hospital Melbourne



Dr Angela Wan
Research Fellow, NHMRC Centre of Research Excellence in Wiser Wound Care, Nursing Research Institute



Tom Whelan
Nurse Practitioner, Palliative Care Consultative Service, St Vincent's Hospital Melbourne



Rachel Zordan
Senior Research Fellow, Education and Learning, St Vincent's Hospital Melbourne

HDR Students Supervised by NRI Staff

PhD candidates



Alysia Coventry (University of Melbourne)

Developing an evidence-based model of care that will improve the preparedness of family members for dying, death and bereavement in the adult ICU.

Principal Supervisor: Professor Peter Hudson (University of Melbourne)

Co-supervisor: Professor Marie Gerdtz (University of Melbourne)

Associate Supervisor: **Professor Elizabeth McInnes**



Brett Jones (ACU)

Code Stroke 2.0 Project: Examining the role of the acute stroke nurse during a code stroke call in the Emergency Department.

Principal Supervisor: **Professor Sandy Middleton**

Co-Supervisor: **Professor Elizabeth McInnes**

Associate Supervisor: **Dr Oyebola Fasugba**



Victoria Ramsden (ACU)

Sustaining improvements in the management of infants with bronchiolitis: A (Paediatric Research in Emergency Departments International Collaborative) PREDICT Study.

Principal Supervisor: **Professor Elizabeth McInnes**

Co-Supervisor: Professor Peter Wilson

Associate Supervisors: Dr Emma Tavender (Murdoch Children's Research Institute) and Professor Franz Babl (Murdoch Children's Research Institute)

MPhil candidate



Minh Viet Bui (ACU)

A mixed methods process evaluation of the Promoting Resilience in Nurses (PRiN) randomised controlled trial.

Principal Supervisor: Professor Kim Foster

Co-Supervisor: **Professor Elizabeth McInnes**

Associate Supervisor: Dr Gary Ennis (Eastern Health)

NRI PhD Profile

Alysia Coventry

BN, DipAClinNsg(ICU), MPhil, PhD Candidate

Alysia is a PhD candidate with The Centre for Palliative Care, St Vincent's Hospital Melbourne and University of Melbourne's Department of Nursing. She currently works as a Senior Research Officer with the Nursing Research Institute, based at St Vincent's Hospital Melbourne. Alysia was awarded a prestigious and highly competitive national University of Melbourne PhD scholarship based on her outstanding prior academic work and the high clinical relevance of her proposal. Her research focuses on the care of families at the end of life in the intensive care unit (ICU). Having worked as an ICU nurse for more than 20 years, Alysia has seen first-hand the difficulties families face when a loved one dies in this setting. For her Master of Philosophy, Alysia published a qualitative meta-synthesis on the experiences of patients' families when treatment is withdrawn. She developed a 'Model of Preparedness for the Delivery of Family-Centred end-of-life care in the ICU' that describes what needs to be in place from the perspective of families – from preparation for dying to bereavement care – to establish a state of preparedness.



Building on this research, her PhD, which will be conducted at the SVHM ICU, is focused on developing an evidence-based model of care that will improve the preparedness of family members for dying, death and bereavement in the adult ICU. Alysia's PhD topic has been described as 'a unique area of inquiry that will provide an important way forward in creating a novel model of care that improves end-of-life support within the ICU setting'. This research has the potential to contribute to changes in practice that will result in better outcomes for families when someone dies in the ICU.

NRI SVHS Clinician Researcher Profile

Dr John Rihari-Thomas
Post-Doctoral Research Fellow, ACCELERATE Trial

Dr John Rihari-Thomas, Post-Doctoral Research Fellow, won the St Vincent's Health Network Sydney Nursing Research Institute Award in celebration of International Nurses Day on 12 May 2021. This was in recognition of his passion, enthusiasm, collegiality and unwavering dedication to improving nursing practice and patient outcomes through his clinical and research endeavours. John has been a Registered Nurse for 27 years, working at St Vincent's Hospital Sydney for 13 years. He has a major interest in implementation science research. Building on his PhD studies and expertise in critical care and evidence translation, John led the implementation of the National Health and Medical Research Council funded ENCORE Trial at St Vincent's Hospital Sydney and three hospitals in Queensland. This trial tested the implementation of a comprehensive patient assessment to reduce Medical Emergency Team calls.



John is currently leading the ACCELERATE Trial being run at St Vincent's Hospitals in both Sydney and Melbourne, and Prince of Wales Hospital. The intervention combines comprehensive patient nursing assessment with effective bedside clinical handover practices. These projects are focused on a key interest of John's: enabling nurses to work to their full scope of practice.

NRI SVHM Clinician Researcher Profile

Jake McMahon
Clinician Researcher, ACCELERATE Trial, Melbourne

Jake McMahon completed a double degree in Nursing/Paramedicine at Australian Catholic University in Ballarat and secured a graduate year at St Vincent's Hospital Melbourne (SVHM) in 2016. He undertook a Postgraduate Certificate in Cancer and Palliative Care in 2019 and was promoted to Associate Nurse Unit Manager at the SVHM cancer ward. It was through this postgraduate study that Jake felt that he 'learned how to learn' and became interested in research.

Through clinical work and study in cancer nursing, Jake met Professor Mei Krishnasamy from the Victorian Comprehensive Cancer Centre (VCCC), who became a valued mentor. Inspired by Mei's pathway of becoming a health researcher and her translational research program, Jake applied for and was selected as one of three SVHM nurses to be offered a fully supported VCCC partnership post-research internship. This internship enabled Jake to learn how to design a research project focused on the needs of carers of rural haematology patients, an area of great need identified by Jake through his clinical work. Jake was a nominee for SVHM Nurse Researcher of the Year 2021.



On the strength of these experiences, his passion for nursing research and ambition to improve evidence-based patient care, Jake was recruited by the NRI as the SVHM Project Manager for the ACCELERATE (Assessment and Communication Excellence for Safe Patient Outcomes) multi-site trial. On completion of his Master of Nursing (Research Stream) degree in 2022, Jake plans to enrol in a PhD. Jake's dream job would be a joint clinician-researcher post that bridges the health sector and academia, so that he can pursue his research ambitions and help shape the next generation of nurses as leaders in evidence translation.

SPHERE Implementation Science Platform

NRI Director, Professor Sandy Middleton, with Associate Professor Caleb Ferguson of the University of Western Sydney, lead the **Implementation Science Platform** of the Maridulu Budyari Gumal Sydney Partnership for Health, Education, Research and Enterprise (SPHERE).



The Platform aims to strengthen implementation research collaborations between SPHERE's 16 Clinical Academic Groups and other partners. Professor Middleton is also Chair of the **Nursing and Midwifery Implementation Science Academy**, providing advice and direction within the framework to achieve SPHERE's near- and long-term objectives. Highlights of the Implementation Science Platform in 2021 include:

- **Gail Del Olmo appointed as Nursing Executive Officer** from August 2021, replacing Lucy Tait, who was in the role from January to May 2021.
- **Development of the SPHERE Nursing and Midwifery Clinical Researcher Career Pathway.** This work is being coordinated by Dr Maree Johnson, an experienced nurse and epidemiologist. Further research will be conducted in 2022 to explore the perceptions of nurses and midwives from Local Health Districts and University student nurses of the factors affecting the implementation and long-term sustainability of the Pathway within Local Health Districts.

- **Co-hosted the 'Implementation Science Health Conference Australia: Ensuring Equity Through Engagement and Research Conference', with Sydney Health Partners on 24–26 November 2021.** Professor Sandy Middleton opened with a discussion of implementation science and how pertinent changing clinician behaviour is to facilitation. Professor Middleton emphasised that it was important to engage with key clinical stakeholders to ensure that the study design used for implementation was appropriate and that evidence was incorporated into practice.
- **Julie Gawthorne, SVHS Clinical Nurse Consultant Emergency Department,** who undertook a SPHERE-funded research internship with the NRI, was invited to present the results of the Clinical Registry Study at the conference. The study was subsequently published in the *International Journal for Quality in Health Care*.

SPHERE Implementation Science Platform continued

- **Virtual Incubator Sessions** were held with SPHERE Clinical Academic Groups (CAG). These sessions support the development of funding proposals and provide peer feedback on study design in relation to implementation science. The first session focused on research undertaken by the Cardiac and Vascular Health CAG, with the second from the Age and Ageing CAG. In 2022, to support clinical research, the SPHERE Implementation Science platform will be awarding two \$50,000 grants to fund Local Health District Translational Research Grants.
- **Nursing and Midwifery Academy planning days** were held on 6 May and 11 August 2021 to discuss implementation research partnership. Attendees included nursing and midwifery academics, and senior nurses from major Sydney hospitals and SPHERE Local Health Districts. The May session introduced new members and focused on developing a collaborative framework. The August session aimed to review the objectives of the SPHERE Nursing and Midwifery Implementation Science Academy, refresh the vision and mission, and co-design Key Results and Outcome and Impact Measures.

Cochrane Reviews on Support Surfaces

For over twenty years, **Professor Elizabeth McInnes (Deputy Director of NRI and Cochrane Wounds Group Editor, Author and Reviewer)** has been first author of two important and widely cited Cochrane Wounds Group systematic reviews on support surfaces (mattresses and overlays) for preventing and treating leg ulcers. These reviews have informed many international

guidelines and National Health Service UK purchasing decisions. This year, due to the size and complexity of these two reviews, they were updated and split into six separate reviews (see Publications). Professor McInnes is now senior author on several of the new reviews. (www.evidentlycochrane.net/support-surfaces-pressure-ulcers/)



NRI Grants Awarded

New Grants 2021

Total funds awarded 2021: \$48,033,657

NRI staff in bold

CATEGORY 1

- 1 Donnan GA, Davis S, Cadilhac DA, Rice H, Parsons M, **Middleton S**, Yan B, Smith K, Campbell B, Churilov L. The Stroke Golden Hour: Delivering urgent stroke care to Australians. National Health and Medical Research Council, Medical Research Future Fund – Frontier Health and Medical Research Grant. Total funds awarded: \$40,167,052.
- 2 Cadilhac DA, **Middleton S**, Kilkenny MF, Kleinig T, Grimley R, Kim J. Improving life after stroke with tailored support: Innovation in use of national registry data. National Health and Medical Research Council, Medical Research Future Fund – Cardiovascular Health Mission. Total funds awarded: \$509,444. (Project ID: APP2008668)
- 3 Keech A, Lal S, Macdonald P, Ferguson C, Ryan C, Jenkins A, Dempsey K, Chow C, O’Connell R, Kilov G. Associate Investigator: **Middleton S**. Digital solutions for heart failure best practice care. National Health and Medical Research Council, Medical Research Future Fund – Cardiovascular Health Mission. Total funds awarded: \$943,765. (Project ID: APP2009251)
- 4 Thomas D, Goldstein D, Young J, Butow P, Leaney K, Zaheed M, Ballinger M, Schroeder L, Lin F, Taylor N, Tucker K, Morrow A, **Middleton S**. P-OMICS-flow grant [Precision Medicine Clinic]. National Health and Medical Research Council, Medical Research Future Fund – Rapid Applied Research Translation Grant. Total funds awarded: \$5,868,917. (Project ID: RARUR000125)

CATEGORY 2

- 5 **Christie LJ**, McCluskey A, **Middleton S**, Boydell J, Meharg A, Kilkenny A, Shiner C, Faux S. ReCITE: Remote Constraint Induced Therapy of the upper Extremity: An implementation study. Stroke Foundation – Early Career Seed Grant. Total funds awarded: \$49,498.

- 6 **Thornton A**, Tuqiri K, Daly B, **Taylor J**, **Middleton S**. Associate Investigators: **Gawthorne J**, **McInnes E**, **Christie LJ**. The Nursing Implementation Science Laboratory. Nursing and Midwifery Strategy Reserve Funding 2021/2022 – NSW Health. Total funds awarded: \$175,820.
- 7 **Thornton A**, Tuqiri K, Daly B, **Taylor J**, **Middleton S**, Pollnow V, Robinson C, Kelly P, Law S, Ferguson C, McErlean G, Chow J, Everett B, Frost S, **McElduff B**. Associate Investigators: **McInnes E**, Slade D, Goncharov L, **Rihari-Thomas J**, **Whittam S**, Langley T. The ACCELERATE Plus Trial: Assessment and Communication Excellence for Safe Patient Outcomes. Nursing and Midwifery Strategy Reserve Funding 2021/2022 – NSW Health. Total funds awarded: \$259,580.

CATEGORY 3

- 8 **McInnes E**, **Riddell K**. Assessment and Communication Excellence for Safe Patient Outcomes. Research Endowment Fund Grant – St Vincent’s Hospital Melbourne. Total funds awarded: \$19,786.
- 9 **Wan CS**, **McInnes E**. Clinicians’ and patients’ views on the prevention and management of hospital-acquired wounds: A mixed-methods systematic review. Australian Catholic University Research Project Grant Scheme 2021. Total funds awarded: \$7,853.
- 10 **Wan CS**, **McInnes E**, Gillespie B, Tobiano G, Seitz Z, Whitley A. Clinical guidelines for nutritional and support surface interventions to prevent and treat pressure injuries: A qualitative study of clinician views and priorities. St Vincent’s Hospital Melbourne Research Endowment Fund 2022. Total funds awarded: \$19,444.
- 11 **Wan CS**, **McInnes E**. Identifying priority barriers for an intervention to improve evidence-based pressure injury care from the perspective of clinical and consumer end-users: A qualitative study. Australian Catholic University Research Awards for Women Academic Staff. Total funds awarded: \$12,498.

NRI Grants Awarded continued

Continuing Grants 2021

NRI staff in bold

CATEGORY 1

- 1 Babl F, Oakley E, Dalziel S, Borland M, **Middleton S**, Donath S, Craig S, Tavender E, Phillips N. National Health and Medical Research Council Centre of Research Excellence in Paediatric Emergency Medicine. Total funds awarded: \$2,498,970. (Project ID: APP1171228)
- 2 Bernhardt J, Donnan GA, Churilov L, Langhorne P, Pandian J, Dewey H, Srikanth V, English C, Moodie M, **Middleton S**. AVERT-DOSE (Determining Optimal early rehabilitation after Stroke): A multi-arm covariate-adjusted, response-adaptive randomised controlled trial. National Health and Medical Research Council Project Grant. Total funds awarded: \$4,359,563. (Project ID: APP1139712)
- 3 Bladin C, Cheung NW, Dewey H, Churilov L, **Middleton S**, Thijs V, Ekinici E. Post-stroke hyperglycaemia – Treatment with Exenatide in Acute Ischaemic Stroke (TEXAIS) trial. National Health and Medical Research Council Project Grant. Total funds awarded: \$1,266,149. (Project ID: APP1126070)
- 4 Chaboyer W, Gillespie BM, **McInnes E**, Rickard C, Scuffham P, Glasziou P, Princess IS, Ullman A, Thalib L, Chopra V. National Health and Medical Research Council Centre of Research Excellence in Wiser Wound Care. Total funds awarded: \$2,500,000. (Project ID: APP1196436)
- 5 Douglas C, **Middleton S**, Gardner G, Kelly P, Morton R, **McInnes E**, Windsor C. Transforming nursing assessment in acute hospitals: A cluster randomised controlled trial of an Evidence-based CORE assessment protocol (ENCORE). National Health and Medical Research Council Partnership Project Grant. Total funds awarded: \$1,069,268. (Project ID: APP1145859)
- 6 **Middleton S**. Transforming acute hospital care to improve outcomes for stroke. National Health and Medical Research Council Leadership 2 Investigator Grant, 2021–2025. Total funds awarded: \$1,350,000. (Project ID: APP1196352)

- 7 Perry L, Center J, Harris I, Clifton-Bligh R, Hassett G, Nguyen T, **McInnes E**, White C, Frost S. Translation of best practice osteoporosis refracture prevention: Stopping fragility fractures to keep Australians out of hospital. National Health and Medical Research Council, Medical Research Future Fund – Keeping Australians Out of Hospital Grant. Total funds awarded: \$897,729. (Project ID: APP1176600)
- 8 Rose M, Togher L, Copland D, Kneebone I, Bernhardt J, Lindley RI, Carey L, Godecke E, Cadilhac DA, Churilov L. Associate Investigator: **Middleton S**. National Health and Medical Research Council Centre of Research Excellence in Aphasia Recovery and Rehabilitation. Total funds awarded: \$2,495,793. (Project ID: APP1153236)
- 9 van Vliet P, Carey L, Turton A, McElduff P, Kwakkel G. Associate Investigator: **Middleton S**. Improving arm function after stroke using task specific training. National Health and Medical Research Council Project Grant. Total funds awarded: \$832,596. (Project ID: APP1129008)
- 10 Westbrook J, Braithwaite J, Day R, **Middleton S**, Scott D, Rapport F, Mitchell R, Baysari M, Li L, Taylor N. Associate Investigator: **McInnes E**. Creating a culture of safety and respect: A controlled, mixed methods study of the effectiveness of a behavioural accountability intervention to reduce unprofessional behaviours (ETHOS). National Health and Medical Research Council Partnership Grant. Total funds awarded: \$1,225,978. (Project ID: APP1134459)

CATEGORY 2

- 11 Cadilhac DA, Lannin NA, **Middleton S**, Andrew NE, Kilkenny MF, Dewey H, Li J, Thrift A. Reintegration into the Community to Address patient-centred recovery goals and improve Participation after Stroke (ReCAPS). Victorian Medical Research Acceleration Fund. Total funds awarded: \$99,356.

NRI Grants Awarded continued

- 12 Riddell K, McInnes E, Douglas C, Middleton S.** ENCORE: Transforming Nursing Assessment in Acute Hospitals. Nurses Board of Victoria Legacy Limited. Total funds awarded: \$189,814.
- 13 Thornton A, Middleton S, Taylor J, McInnes E, Douglas C.** ENCORE: Transforming Nursing Assessment in Acute Hospitals. Nursing and Midwifery Strategy Reserve Funding, NSW Ministry of Health. Total funds awarded: \$400,422.
- 14 Thornton A, Tuqiri K, Oleson K, Taylor J, Middleton S, McInnes E, Slade D, Goncharov L, Rihari-Thomas J, Whittam S.** ACCELERATE: Assessment and Communication Excellence for Safe Patient Outcomes – St Vincent’s Hospital Sydney. Nursing and Midwifery Strategy Reserve Funding, NSW Health. Total funds awarded: \$118,058.
- 15 Tuqiri K, Oleson K, Thornton A, Taylor J, Middleton S, McInnes E, Slade D, Goncharov L, Rihari-Thomas J, Whittam S.** ACCELERATE: Assessment and Communication Excellence for Safe Patient Outcomes – Prince of Wales Hospital. Nursing and Midwifery Strategy Reserve Funding, NSW Health. Total funds awarded: \$177,087.
- 19 McBrearty K, Jordan R, Murphy J, Riddell K, Walker V, Martin J, Jacob E, McInnes E.** Understanding the short and longer-term impacts of a Registered Undergraduate Student of Nursing (RUSON) workforce. St Vincent’s Curran Foundation Research Endowment Fund Grant. Total funds awarded: \$39,450.
- 20 McInnes E, Riddell K, Coventry A, Coughlan K.** ACCELERATE: Assessment and Communication Excellence for Safe Patient Outcomes. St Vincent’s Hospital Melbourne Research Endowment Fund. Total funds awarded: \$19,786.
- 21 Middleton S, Dale S, McInnes E, Levi C, Cheung NW, Grimshaw J, D’Este C, Cadilhac DA, Quinn C.** Quality in Acute Stroke Care Europe: A proposal to implement and evaluate nurse-initiated evidence-based stroke care in Europe, to manage fever, hyperglycaemia and swallowing difficulties. European Stroke Organisation. Total funds awarded: \$1,251,732.
- 22 Watkins DCL, Lightbody E, Schroeder D, Hackett ML, Clegg A, Sharma A, Sutton C, Gibson J, Georgiou R, Forshaw D, Walker M, Gabbay M, Sanders C, Maulik P, Pandian J, Srivastava P, Sylaja PN, Kalkonde Y, Lindley RI, Middleton S, Cadilhac DA.** National Institute for Health Research – Global Health Research Group on Improving Stroke Care in India (IMPROVISE). Total funds awarded: £1,918,796.

CATEGORY 3

- 16 Alexandrov AW, Alexandrov A, Metter EJ, Thomas F, Tsivgoulis G, Middleton S.** Zero Degree head positioning in Acute ischaemic stroke (ZODIAC). National Institute of Health (USA). Total funds awarded: US\$2,362,361.
- 17 Cadilhac DA, Middleton S, Grimley R, Pandian J, Nguyen TH, Vo TTC, Tran BQ, Watkins DCL, Lightbody E, Boaden E.** RAVIE – Improving the capacity to deliver evidence-based care for acute stroke using educational workshops in developing countries. Australian Academy of Science Regional Collaborations Round 2. Total grant: \$260,519.
- 18 Curtis K, Fry M, D’Amato A, Considine J, Shaban R, McCarthy S, Mitchell R, Ramsden C, Middleton S, Asha S.** An evidence-based approach to improving outcomes and reducing hospital-acquired complications in patients with rib fractures: Chest Injury Pathway (ChIP). HCF Foundation. Total funds awarded: \$290,796.

Category 1: Australian Competitive Grants – Australian competitive grant research and development incomes

Category 2: Funding from the Australian public sector – Australian Government schemes and business enterprises that don’t meet the Category 1 assessment and state and local governments and partly government-owned or funded bodies

Category 3: Industry and Other Research Income – comprises funding from the private sector, philanthropic and international sources

NRI Peer-reviewed Publications

NRI staff (current and past) in bold

- 1 Bangee M, Martinez-Garduno C, Brady M, Cadilhac DA, Dale S, Hurley M, McInnes E, Middleton S, Patel T, Watkins DCL, Lightbody C.** Oral Care Practices in Stroke: Findings from the UK and Australia. *BMC Nursing* 2021; 20(169):1–8. DOI: [10.1186/s12912-021-00642-y](https://doi.org/10.1186/s12912-021-00642-y)
- 2 Bernhardt J, Borschmann K, Collier JM, Thrift AG, Langhorne P, Middleton S, Lindley RI, Dewey HM, Bath P, Said CM, Churilov L, Ellery F, Bladin C, Reid CM, Frayne JH, Srikanth V, Read SJ, Donnan GA.** Fatal and non-fatal events within 14 days after early, intensive mobilization post stroke. *Neurology* 2021; 96(8):e1156–e1166. DOI: [10.1212/WNL.00000000000011106](https://doi.org/10.1212/WNL.00000000000011106)
- 3 Boaden E, Burnell J, Hives L, Dey P, Clegg A, Lyons MW, Lightbody CE, Hurley MA, Roddam H, McInnes E, Alexandrov A, Watkins DCL.** Screening for aspiration risk associated with dysphagia in acute stroke. *Cochrane Database of Systematic Reviews* 2021; 10:CD012679. DOI: [10.1002/14651858.CD012679.pub2](https://doi.org/10.1002/14651858.CD012679.pub2)
- 4 Cadilhac DA, Cameron J, Kilkenny MF, Andrew NE, Harris D, Ellery F, Thrift AG, Purvis T, Kneebone I, Dewey H, Drummond A, Hackett M, Grimley R, Middleton S, Thijs V, Cloud G, Carey M, Butler E, Ma H, Churilov L, Hankey GJ, English C, Lannin NA.** Protocol of a randomized controlled trial investigating the effectiveness of Recovery-focused Community support to Avoid readmissions and improve Participation after Stroke (ReCAPS). *International Journal of Stroke* 2021; June 14:17474930211022678. Epub ahead of print. DOI: [10.1177/17474930211022678](https://doi.org/10.1177/17474930211022678)
- 5 Cadilhac DA, Kim J, Tod EK, Morrison JL, Breen SJ, Jaques K, Grimley R, Jones B, Cloud GC, Kleinig T, Hillier S, Castley H, Lindley RI, Lannin NA, Middleton S, Yan B, Hill K, Clissold BB, Mitchell PJ, Campbell BCV.** COVID-19 Pandemic Impact on Care for Stroke in Australia: Emerging Evidence From the Australian Stroke Clinical Registry. *Frontiers in Neurology* 2021; 12:621495. DOI: [10.3389/fneur.2021.621495](https://doi.org/10.3389/fneur.2021.621495)
- 6 Coyer F, Chaboyer W, Lin F, Doubrovsky A, Barakat-Johnson M, Brown W, Lakshmanan R, Leslie G, Jones SL, Pearse I, Martin K, McInnes E, Mitchell M, Powell M, Sosnowski K, Talbot M, Thompson A, Thompson L, Labeau S, Blot S.** Pressure injury prevalence in Australian intensive care units: A secondary analysis. *Australian Critical Care*. 2021 Nov 27:S1036–7314(21)00167–3. Epub ahead of print. DOI: [10.1016/j.aucc.2021.10.009](https://doi.org/10.1016/j.aucc.2021.10.009)
- 7 Curtis K, Kourouche S, Asha S, Considine J, Fry M, Middleton S, Mitchell R, Munroe B, Shaban R, D’Amato, Skinner C, Wiseman G, Buckley T.** Impact of a care bundle for patients with blunt chest injury (ChIP): A multicentre controlled implementation evaluation. *PLOS One* 2021; 16(10):e0256027. DOI: [10.1371/journal.pone.0256027](https://doi.org/10.1371/journal.pone.0256027)
- 8 Eliakundu A, Cadilhac DA, Kim J, Andrew NE, Bladin C, Grimley R, Dewey H, Donnan GA, Hill K, Levi C, Middleton S, Anderson CS, Lannin N, Kilkenny M.** Factors associated with arrival by ambulance for patients with stroke: A multicentre, national data linkage study. *Australasian Emergency Care* 2021; 24(3):167–173. DOI: [10.1016/j.auec.2021.01.002](https://doi.org/10.1016/j.auec.2021.01.002)
- 9 Fasugba O, McInnes E, Baye J, Cheng H, Gordon R, Middleton S.** Barriers and enablers to implementing hospital-acquired urinary tract infection prevention strategies: A qualitative study using the Theoretical Domains Framework. *Journal of Hospital Infection* 2021; 113:172–179. DOI: [10.1016/j.jhin.2021.03.028](https://doi.org/10.1016/j.jhin.2021.03.028)
- 10 Gawthorne J, Fasugba O, Levi C, McInnes E, Ferguson C, McNeil J, Cadilhac DA, Everett B, Fernandez R, Fry M, Goldsmith H, Hickman L, Jackson D, Maguire J, Murray E, Perry L, Middleton S.** On behalf of the Maridulu Budyari Gumal Sydney Partnership for Health, Education, Research and Enterprise Nursing & Midwifery Implementation Science Academy. Are clinicians using routinely collected data to drive practice improvement? A cross sectional survey. *International Journal for Quality in Health Care* 2021; 33(4):mzab141. DOI: [10.1093/intqhc/mzab141](https://doi.org/10.1093/intqhc/mzab141)

NRI Peer-reviewed Publications continued

- 11 **Gawthorne J**, Stevens J, Faux S, Leung J, **McInnes E**, **Fasugba O**, **McElduff B**, **Middleton S**. Can emergency nurses safely and effectively insert fascia iliaca blocks in patients with a fractured neck of femur? A prospective cohort study. *Journal of Clinical Nursing* 2021; 30:3611–3622. DOI.org/10.1111/jocn.15883
- 12 Gillespie B, Latimer S, Walker R, **McInnes E**, Moore Z, Eskes A, Li Z, Schoonhoven L, Boorman R, Chaboyer W. The quality and clinical applicability of recommendations in pressure injury guidelines: A systematic review of clinical practice guidelines. *International Journal of Nursing Studies* 2021; 115:103857. DOI: 10.1016/j.ijnurstu.2020.103857
- 13 Gillespie B, Walker R, Latimer S, Thalib L, Whitty J, **McInnes E**, Chaboyer W. Repositioning for pressure injury prevention in adults: An abridged Cochrane systematic review and meta-analysis. *International Journal of Nursing Studies* 2021; 120:103976. DOI: 10.1016/j.ijnurstu.2021.130976
- 14 Godecke E, Armstrong B, Rai T, Ciccone N, Rose M, **Middleton S**, Whitworth A, Holland A, Ellery F, Hankey G, Cadilhac DA, Bernhardt J. VERSE Collaborative Group. A Randomised Control Trial of intensive aphasia therapy after acute stroke: The Very Early Rehabilitation for SpEech (VERSE) study. *International Journal of Stroke* 2021; 16(5):556–572. DOI: 10.1177/1747493020961926
- 15 Green T, McNair ND, Hinkle JL, **Middleton S**, Miller ET, Perrin S, Power M, Southerland AM, Summers D, and on behalf of the American Heart Association Stroke Nursing Committee of the Council on Cardiovascular and Stroke Nursing and the Stroke Council. Care of the Patient With Acute Ischemic Stroke (Post hyperacute and Prehospital Discharge): Update to 2009 Comprehensive Nursing Care Scientific Statement. *Stroke* 2021; 52(5):e179–e197. DOI: 10.1161/STR.0000000000000357
- 16 **Hamilton H**, **Dale S**, **McElduff B**, **Craig LE**, **Fasugba O**, **McInnes E**, Alexandrov AW, Cadilhac DA, Lightbody E, Watkins DCL, **Middleton S**. The role of stroke nurses in thrombolysis administration in Australia and the United Kingdom: A cross-sectional survey of current practice. *Journal of Clinical Nursing* 2021. Epub ahead of print. DOI: 10.1111/jocn.15892
- 17 Janssen H, Ada L, **Middleton S**, Pollack M, Nilsson M, Churilov L, Blennerhasset J, Faux S, New P, McCluskey A, Spratt NJ, and Bernhardt J on behalf of the AREISSA Trial group. Altering the rehabilitation environment to improve stroke survivor activity (AREISSA): A Phase II trial. *International Journal of Stroke* 2021. April 13:17474930211006999. Epub ahead of print. DOI: 10.1177/17474930211006999
- 18 Kourouche S, Curtis K, Munroe B, Asha S, Carey I, Considine J, Fry M, Lyons J, **Middleton S**, Mitchell R, Shaban RZ, Unsworth A, Buckley T. Implementation of a hospital-wide multidisciplinary blunt chest injury care bundle (ChIP): Fidelity of delivery evaluation. *Australian Critical Care* 2021. Jun 15:S1036–7314(21)00058–8. Epub ahead of print. DOI: 10.1016/j.aucc.2021.04.003
- 19 Mitchell B, Curryer C, Holliday E, Rickard MC, **Fasugba O**. Effectiveness of meatal cleaning in the prevention of catheter-associated urinary tract infections and bacteriuria: an updated systematic review and meta-analysis. *BMJ Open* 2021; 11:e046817. DOI: 10.1136/bmjopen-2020–046817
- 20 Mitchell B, Prael G, Curryer C, Russo PL, **Fasugba O**, Lowthian J, Cheng AC, Archibold J, Robertson M, Kiernan M. The frequency of urinary tract infections and the value of antiseptics in community-dwelling people who undertake intermittent urinary catheterization: A systematic review. *American Journal of Infection Control* 2021; 49(8):1058–1065. DOI: 10.1016/j.ajic.2021.01.009
- 21 Ouyang M, Roffe C, Billot L, Song L, Wang X, Munoz-Venturelli P, Lavados P, Robinson T, **Middleton S**, Olavarria VV, Watkins DCL, Lee TH, Brunser A, Pontes-Neto O, Hackett L, Anderson CS. Oxygen desaturation and adverse outcomes in acute stroke: Secondary analysis of the HeadPoST study. *Clinical Neurology and Neurosurgery* 2021; 207:106796. DOI: 10.1016/j.clineuro.2021.106796
- 22 Ouyang M, Venturelli P, Billot L, Wang X, Song L, Arima H, Lavados P, Hackett M, Olavarria V, Brunser A, **Middleton S**, Pontes-Neto O, Lee TH, Watkins DCL, Robinson T, Anderson CS. Low blood pressure and adverse outcomes in acute stroke: HeadPoST study explanations. *Journal of Hypertension* 2021; 39(2):273–279. DOI: 10.1097/HJH.0000000000002649

NRI Peer-reviewed Publications continued

- 23 Purvis T, **Middleton S**, Alexandrov A, Kilkenny M, Coote S, Kuhle S, Cadilhac DA. Understanding coordinator roles in acute stroke care: A national survey. *Journal of Stroke and Cerebrovascular Diseases* 2021; 30(12):10611. DOI: 10.101/j.jstrokecerebrovasdis.2021.106111
- 24 Riley M, Tassie B, **Gawthorne J**, Hadzic R, Stevens J. Increased opioid consumption after regional nerve blockade: Association of fascia iliaca block with rebound pain in neck of femur fracture. *British Journal of Anaesthesia* 2021; 127(1):e15–e17. DOI: 10.1016/j.bja.2021.03.034
- 25 **Schadewaldt V**, **McElduff B**, D’Este C, **McInnes E**, **Dale S**, **Fasugba O**, Cadilhac DA, Considine J, Grimshaw JM, Cheung W, Levi C, Gerraty R, Fitzgerald M, **Middleton S**. Measuring organisational context in Australian Emergency Departments and its impact on stroke care and patient outcomes – a cross-sectional multi-method study. *Nursing Outlook* 2021; 69(1):103–115. DOI: 10.1016/j.outlook.2020.08.009
- 26 Shi C, Dumville JC, Cullum N, Rhodes S, **Jammali-Blasi A**, **McInnes E**. Alternating pressure (active) air surfaces for preventing pressure ulcers. *Cochrane Database of Systematic Reviews* 2021; 5(5):CD013620. DOI: 10.1002/14651858.CD013620.pub2
- 27 Shi C, Dumville JC, Cullum N, Rhodes S, **McInnes E**. Foam surfaces for preventing pressure ulcers. *Cochrane Database of Systematic Reviews* 2021; 4:CD013621. DOI: 10.1002/14651858.CD013621.pub2
- 28 Shi C, Dumville JC, Cullum N, Rhodes S, Leung V, **McInnes E**. Reactive air surfaces for preventing pressure ulcers. *Cochrane Database of Systematic Reviews* 2021; 5:CD013622. DOI: 10.1002/14651858.CD013622.pub2
- 29 Shi C, Dumville JC, Cullum N, Rhodes S, **McInnes E**. Alternative reactive support surfaces (non-foam and non-air-filled) for preventing pressure ulcers. *Cochrane Database of Systematic Reviews* 2021; 4:CD013623. DOI: 10.1022.14651858.CD013623.pub2
- 30 Shi C, Dumville JC, Cullum N, Rhodes S, **Jammali-Blasi A**, **Ramsden V**, **McInnes E**. Beds, overlays and mattresses for treating pressure ulcers. *Cochrane Database of Systematic Reviews* 2021; 5:CD013624. DOI: 10.1002/14651858.CD013624.pub2
- 31 Shi C, Dumville JC, Cullum N, Rhodes S, **McInnes E**. Beds, overlays and mattresses for preventing and treating pressure ulcers: An overview of Cochrane reviews and network meta-analysis. *Cochrane Database of Systematic Reviews* 2021, Issue 10. Art. No.: CD013761. DOI: 10.1002/14651858.CD013761
- 32 Thayabaranathan T, Andrew N, Grimley R, Stroil-Salama E, Grabsch B, Hill K, Cadigan G, Purvis T, **Middleton S**, Kilkenny M, Cadilhac DA. Understanding the role of external facilitation to drive quality improvement for stroke care in hospitals. *Healthcare* 2021; 9(9):1095. DOI: 10.3390/healthcare9091095
- 33 Walter S, Fassbender K, Easton D, Schwarz M, Gardiner FW, Langenberg F, Dos Santos A, Bill C, Fox K, Bishop L, Coote S, Zhao H, **Middleton S**, Bladin C, Davis SM, Donnan GA. Stroke care equity in rural and remote areas – novel strategies. *Vessel Plus* 2021; 5:27. DOI: 10.20517/2574–1209.2020.102
- 34 Wang X, Moullaali T, Ouyang M, Billot L, Sandset EC, Song L, Delcourt C, Hackett M, Watkins DCL, Robinson TG, Yang J, Lavados PM, Brunser AM, Olavarria VV, Muñoz-Venturelli P, Arima H, **Middleton S**, Pontes-Neto OM, Pandian JD, Rogers K, Anderson CS. Influence of including patients with pre-morbid disability in acute stroke trials: The HeadPoST experience. *Cerebrovascular Diseases* 2021; 50:78–87. DOI: 10.1159/000512608
- 35 Westbrook J, Sunderland NS, Li L, Koyama A, McMullan RD, Urwin R, Churruca K, Baysari M, Jones C, Loh E, **McInnes E**, **Middleton S**, Braithwaite J. Prevalence and impact of unprofessional behaviours among hospital co-workers: A survey of 5178 hospital staff in seven Australian hospitals. *Medical Journal of Australia* 2021; 214(1):31–37. DOI: 10.5694/mja2.50849

NRI Projects

In 2021, NRI researchers collaborated on 29 research projects. Nine were led by NRI researchers* and 21 projects with NRI staff involved as co-investigators.^

Sixteen projects involved collaboration with SVHA partners

Project by National Safety and Quality Health Service Standards	Funding source	St Vincent's Health Australia campuses	
STANDARD 1: CLINICAL GOVERNANCE			
1	The Clinical Registry Study – St Vincent's Hospital Sydney*	Maridulu Budyari Gumal Sydney Partnership for Health, Education, Research and Enterprise; St Vincent's Health Network Sydney; St Vincent's Health Australia	St Vincent's Health Network Sydney
STANDARD 2: PARTNERING WITH CONSUMERS			
2	Peritoneal dialysis patients' health and wellbeing and satisfaction with care*	In-kind – NRI	St Vincent's Health Network Sydney
3	ReCAPS: Recovery-focused Community support to Avoid readmissions and improve Participation after Stroke^	National Health and Medical Research Council; Victorian Medical Research Acceleration Fund	N/A
STANDARD 3: PREVENTING AND CONTROLLING HEALTHCARE-ASSOCIATED INFECTION			
4	Centre of Research Excellence in Wiser Wound Care^ • Mixed-methods systematic review on clinicians' and patients' views on the prevention and management of hospital-acquired wounds in acute care • Cochrane systematic review update on nutritional interventions for preventing and treating pressure injuries • Qualitative study of clinician views on clinical guidelines for nutritional and support surface interventions to prevent pressure injuries • Prioritisation study to identify pressure injury prevention priorities from the perspectives of clinicians and health consumers	National Health and Medical Research Council	St Vincent's Hospital Melbourne
STANDARD 5: COMPREHENSIVE CARE			
5	AVERT-DOSE (Determining Optimal early rehabilitation after Stroke): A multi-arm covariate-adjusted, response adaptive randomised controlled trial^	National Health and Medical Research Council	St Vincent's Health Network Sydney
6	Centre of Research Excellence in Aphasia Recovery and Rehabilitation^	National Health and Medical Research Council	N/A

NRI Projects continued

STANDARD 5: COMPREHENSIVE CARE CONTINUED			
7	Centre of Research Excellence in Paediatric Emergency Medicine Sustaining improvements in the management of infants with bronchiolitis: A PREDICT study^	National Health and Medical Research Council	N/A
8	CHIP: Chest Injury Pathway – an evidence-based approach to improving outcomes and reducing hospital-acquired complications in patients with rib fractures^	HCF Research Foundation	N/A
9	Code stroke 2.0*	PhD student	N/A
10	Digital solutions for heart failure best practice care	National Health and Medical Research Council	N/A
11	Improving arm function after stroke using task specific training^	National Health and Medical Research Council	N/A
12	Improving life after stroke with tailored support: Innovation in use of national registry data	National Health and Medical Research Council	N/A
13	IMPROVISATION: National Institute for Health Research – Global Health Research Group on IMPROVing Stroke carE in India^	National Institute for Health Research, UK	N/A
14	Quality in Acute Stroke Care (QASC) Europe Project*	European Stroke Organisation	N/A
15	RAVIE: Improving the capacity to deliver evidence-based care for acute stroke using educational workshops in developing countries^	Australian Academy of Science – Regional Collaborations Program	N/A
16	Stroke Golden Hour: Delivering urgent stroke care to Australians	National Health and Medical Research Council	N/A
17	TEXAIS: Post-stroke hyperglycaemia – Treatment with EXenatide in Acute Ischaemic Stroke trial^	National Health and Medical Research Council	St Vincent's Health Network Sydney; St Vincent's Hospital Melbourne
18	Transforming acute hospital care to improve outcomes for stroke* • Evaluation of an implementation intervention to enhance national translation of nurse-initiated protocols for fever, hyperglycaemia and swallowing management following stroke: A cluster randomised controlled trial • FeSS Australia	National Health and Medical Research Council	N/A
19	Translation of best practice osteoporosis refracture prevention: Stopping fragility fractures to keep Australians out of hospital^	National Health and Medical Research Council	St Vincent's Health Network Sydney
20	ZODIAC: ZerO Degree head positioning In Acute ischemic stroke^	National Institute of Health, USA	N/A

NRI Projects continued

STANDARD 6: COMMUNICATING FOR SAFETY			
21	Better bedside handover project: Research and intervention to improve patient safety and satisfaction at St Vincent's Hospital Sydney, St Joseph's Hospital and St Vincent's Hospital Melbourne^	St Vincent's Curran Foundation	St Vincent's Health Network Sydney; St Joseph's Hospital; St Vincent's Hospital Melbourne
22	ETHOS: Creating a culture of safety and respect: A controlled, mixed methods study of the effectiveness of a behavioural accountability intervention to reduce unprofessional behaviours^	National Health and Medical Research Council	St Vincent's Health Network Sydney; Mater Hospital Sydney; St Vincent's Private Hospital Sydney; St Vincent's Hospital Melbourne; St Vincent's Private Hospital Melbourne
STANDARD 8: RECOGNISING AND RESPONDING TO CLINICAL DETERIORATION			
23	ACCELERATE Trial: Assessment and Communication Excellence for Safe Patient Outcomes*	NSW Nursing and Midwifery Strategy Reserve Funding; Nurses Board Legacy Ltd Research Fund	St Vincent's Health Network Sydney; St Vincent's Hospital Melbourne
24	Development of a tool to identify mental health deterioration in generalist settings^	Nil	St Vincent's Hospital Melbourne
25	ENCORE: Transforming nursing assessment in acute hospitals: A cluster randomised controlled trial of an Evidence-based CORE assessment protocol^	National Health and Medical Research Council	St Vincent's Hospital Sydney
26	The PREPARE Study: Improving the PREPAREDness of family members for end-of-life care in the intensive care unit*	Nil	St Vincent's Hospital Melbourne
OTHER			
27	Optimising the Scope of Practice of Nurses Providing Healthcare to People Experiencing Homelessness^	St Vincent's Health Australia Inclusive Health Program	St Vincent's Health Network Sydney
28	ReCITE: Remote Constraint Induced Therapy of the upper Extremity: An implementation study*	St Vincent's Clinic Foundation 2021 Multidisciplinary Patient Focused Research Grant	St Vincent's Health Network Sydney
29	Understanding the short and longer-term impacts of a Registered Undergraduate Student of Nursing (RUSON) workforce^	Research Endowment Fund Grant	St Vincent's Hospital Melbourne

NRI and Allied Health Partnership

The Allied Health Research Unit continued to grow with a productive and successful year overseen by Dr Lauren Christie, Allied Health Senior Implementation Science Research Fellow, St Vincent's Health Network Sydney, based at the Nursing Research Institute.

Dr Christie worked with allied health clinicians to increase research capacity within frontline allied health disciplines to implement evidence into practice. This role includes providing both formal and informal research support, education and mentoring to frontline allied health clinicians in

conducting allied health research projects on the St Vincent's Sydney campus. In 2021, allied health researchers received four new grants totalling \$438K, worked on 18 projects, and were first or co-authors on 37 publications in high-impact journals showcased below.

Allied Health Highlights

■ **Dr Lauren Christie and Professor Elizabeth McInnes** participated in the Franklin Women Mentoring Program 2021. In its first year as a partner organisation of Franklin Women, St Vincent's Applied Medical Research Centre selected two team members from the Nursing Research Institute to participate in the annual flagship Franklin Women Mentoring Program 2021. Professor McInnes, Deputy Director of the NRI, took part in the program as a mentor and Dr Christie as a mentee. The Franklin Women Mentoring Program is a sector-first cross-organisational and structured six-month program that combines informal mentoring sessions with formal sessions facilitated by experts in inclusive leadership. It aims to support

the progress of high-potential women in health and medical research careers into leadership positions, retaining their skill in the sector.

■ **Dr George Ntoumenopoulos**, ICU Physiotherapist, was awarded the Journal of Physiotherapy Reader's Choice Award for his involvement in the publication, *Physiotherapy management for COVID-19 in the acute hospital setting: clinical practice recommendations*, which has been downloaded over 180,000 times.

■ **Dr Lauren Christie** was nominated for the inaugural Australian Cardiovascular Alliance Mentor Award. The peer-nominated award honours individuals who demonstrate extraordinary leadership and practical help and guidance in their careers.

NRI and Allied Health Partnership continued



Dr Susan Hart and Devlin Higgins. Barriers and Facilitators to the Delivery of Evidence Based Care for People with Eating Disorders in an Acute Care Setting project leads.

■ **Laura Lincoln and Amelia Starkey**, Speech Pathologists, were awarded 'Best Oral Presentation on the Day' in the Allied Health and Nursing Symposium at ACMD Research Week at St Vincent's Hospital Melbourne, for their study, *The impact of speech pathology intervention pre 3-stage oesophagectomy on post-operative health outcomes*. This work was also presented at the National Allied Health Conference.

■ **Peita Anderson and Dominique Birchall** (Stroke Unit Physiotherapists), and **Meredith Rogers** (Occupational Therapist/accredited Hands Therapist) commenced as site investigators for the international AVERT-DOSE Trial, with study recruitment underway.

NRI and Allied Health Partnership continued

Allied Health Clinician Researchers and Projects

ST VINCENT'S HOSPITAL SYDNEY



Peita Anderson
Stroke Unit Physiotherapist, St Vincent's Hospital Sydney
AVERT-DOSE (Determining Optimal early rehabilitation after Stroke): A multi-arm covariate-adjusted, response-adaptive randomised controlled trial



Mallory Hall
Dietitian, St Vincent's Hospital Sydney
The impact of pre-operative nutrition support in heart and lung transplant patients: A feasibility study



Dr Paul Andrews
Social Work Educator, St Vincent's Hospital Sydney
A clinical service evaluation of an integrated social work led model of care in responding to domestic and family violence



Nicola Hardingham
Speech Pathologist, St Vincent's Hospital Sydney
Examining swallowing outcomes following surgical resection of oral and/or oropharyngeal squamous cell carcinoma using the mandibular lingual release approach



Dominique Birchall
Stroke Unit Physiotherapist, St Vincent's Hospital Sydney
AVERT-DOSE (Determining Optimal early rehabilitation after Stroke): A multi-arm covariate-adjusted, response-adaptive randomised controlled trial



Dr Susan Hart
Eating Disorders Co-ordinator, St Vincent's Hospital Sydney
Barriers and Facilitators to the Delivery of Evidence Based Care for People with Eating Disorders in an Acute Care Setting



Rebecca Black
Speech Pathologist, St Vincent's Hospital Sydney
Swallowing and laryngeal dysfunction in heart and/or lung transplantation



Devlin Higgins
Exercise Physiologist & Research Assistant, St Vincent's Hospital Sydney
Barriers and Facilitators to the Delivery of Evidence Based Care for People with Eating Disorders in an Acute Care Setting



Elise Crothers
ICU Physiotherapist, St Vincent's Hospital Sydney
The use of lung ultrasound in the diagnosis and treatment of diaphragm dysfunction after lung transplant



Laura Lincoln
Speech Pathologist, St Vincent's Hospital Sydney
The impact of speech pathology intervention pre 3-stage oesophagectomy on post-operative health outcomes



Nicola Fearn
Occupational Therapist & Senior Research Officer, Allied Health, St Vincent's Hospital Sydney
ReCITE: Remote Constraint Induced Therapy of the upper Extremity: An implementation study



Noah Mitchell
Physiotherapy Manager, St Vincent's Hospital Sydney
AVERT-DOSE (Determining Optimal early rehabilitation after Stroke): A multi-arm covariate-adjusted, response-adaptive randomised controlled trial



Jill Featherston
Podiatrist, St Vincent's Hospital Sydney
Reliability of a Three-Dimensional Wound Camera and Correlation With Routine Ruler Measurement in Diabetes-Related Foot Ulceration



Dr George Ntoumenopoulos
ICU Physiotherapist, St Vincent's Hospital Sydney
Physiotherapy management for COVID-19 in the acute hospital setting

NRI and Allied Health Partnership continued



Meredith Rogers
Senior Occupational Therapist, St Vincent's Hospital Sydney
AVERT-DOSE (Determining Optimal early rehabilitation after Stroke): A multi-arm covariate-adjusted, response-adaptive randomised controlled trial



Karen Storer
Dietitian, St Vincent's Hospital Sydney
NUTRIENT – Nutrition practice in critically ill adults: An observational study



Adele Sheridan-Magro
Manager, Domestic and Family Violence Service, St Vincent's Hospital Sydney
A clinical service evaluation of an integrated social work led model of care in responding to domestic and family violence



Susie Welch
Pharmacist, St Vincent's Hospital Sydney
Connecting the dots of care: a survey of Australian hospital pharmacy departments regarding current initiatives in place to care for inpatient Aboriginal and/or Torres Strait Islander people



Christine Shiner
Senior Research Officer, Department of Rehabilitation and Pain Medicine, St Vincent's Hospital Sydney
ReCITE: Remote Constraint Induced Therapy of the upper Extremity: An implementation study



Claudia Woolf
Clinical Neuropsychologist, Older People's Mental Health Service, St Vincent's Hospital Sydney
Evaluation of 'Club Connect' program for healthy brain aging delivered via telehealth – a feasibility random controlled trial



Amelia Starkey
Speech Pathologist, St Vincent's Hospital Sydney
The impact of speech pathology intervention pre 3-stage oesophagectomy on post-operative health outcomes

ST JOSEPH'S HOSPITAL, AUBURN



Ellie Temple
Physiotherapist, St Joseph's Hospital Auburn
Ballistic strength training on a Jump Trainer is feasible and safe in Parkinson's disease

NRI and Allied Health Partnership continued

New Grants Awarded to SVHNS and NRI Health Clinician Researchers

Total funds awarded 2021: \$438,000

- Hall M, Christie LJ, Inglis S, Macdonald P, Plitt M, Liu Z.** The impact of pre-operative nutrition support in heart and lung transplant patients: examining feasibility and acceptability. St Vincent's Clinic Foundation 2022 Multidisciplinary Patient Focused Research Grant. Total funds awarded: \$25,000.
- Hart S, Maher E.** An exploratory study on eating disorders and stigma amongst clinicians in an acute hospital setting. St Vincent's Centre for Applied Medical Research for the Inclusive Health Innovation Fund Grant 2022. Total funds awarded: \$30,000.
- Hart S.** Hidden in Plain Sight – Eating Disorders at St Vincent's Hospital Sydney. St Vincent's Curran Foundation Endowment Grant. Total funds awarded: \$33,000.
- Parsons M, Lange D, Behar J, Middleton P, Christie LJ.** Stroke Smart Ambulance: The Ambulance of the Future. Ingham Institute of Applied Medical Research – Technion Australia Competitive Grant Program. Total funds awarded: \$350,000.

Ongoing Grants Awarded to SVHNS and NRI Health Clinician Researchers

- Christie LJ, McCluskey A, Middleton S, Boydell J, Meharg A, Kilkenny A, Shiner C, Faux S.** ReCITE: Remote Constraint Induced Therapy of the upper Extremity: An implementation study. Stroke Foundation – Early Career Seed Grant. Total funds awarded: \$49,498.
- Christie LJ, Shiner C, Faux S, Boydell J, Meharg A, Kilkenny A, Doussoulin Sanhueza A, McCluskey A.** ReCITE: Remote Constraint Induced Therapy of the upper Extremity: An implementation study. St Vincent's Clinic Foundation 2021 Multidisciplinary Patient Focused Research Grant. Total funds awarded: \$25,000.
- Hart S, Christie LJ, Gawthorne J, Armstrong M, Lazar M, Williams D, Woods N, Greenfield J, Babidge N, Gill K.** Barriers and Facilitators to the Delivery of Evidence Based Care for People with Eating Disorders in an Acute Care Setting. St Vincent's Centre for Applied Medical Research for the Inclusive Health Innovation Fund Grant 2021. Total funds awarded: \$30,000.
- Knock E.** Psychotherapy for psilocybin assisted methamphetamine dependence study (PSI-MA) (conducted in partnership with St Vincent's Hospital Melbourne). National Centre for Clinical Research on Emerging Drugs (NCCRED) Allied Health Clinical Research Scholarship. Total funds awarded: FTE0.5 Salary.
- Lazar M, Christie LJ.** The Allied Health Research project: Improving outcomes from new models of allied health. St Vincent's Curran Foundation Endowment Grant. Total funds awarded: \$52,045.
- Woolf C, Kaplan L, Norrie L, Burke D, Beveridge S, Naismith S, Mowszowski L.** A feasibility randomised controlled trial of a virtual version of Club Connect: An evidence-based healthy brain ageing cognitive training program for older adults. St Vincent's Centre for Applied Medical Research for the Inclusive Health Innovation Fund Grant. Total funds awarded: \$30,000

NRI and Allied Health Partnership continued

Allied Health Collaborations with ACU Honours Program

The Allied Health Research Unit partners with ACU on the following honours projects:

Validation of administration of the nine-hole peg test with stroke survivors via telehealth

Student: Katie Weston, Occupational Therapy

Supervisors:

- Dr Lauren Christie, Allied Health Senior Implementation Science Research Fellow, St Vincent's Health Network Sydney;
- Liana Cahill, Occupational Therapy Lecturer, ACU

Project partners:

- Professor Natasha Lannin, Alfred Health and Monash University, Melbourne;
- Dr Narelle Cox, Monash University, Melbourne;
- Rujun Qiang, Occupational Therapist, St Joseph's Hospital Auburn

Barriers and facilitators to delivery of oral care in acute aged care at St Vincent's Hospital Sydney

Student: Erin Musgrove, Speech Pathology

Supervisors:

- Dr Michelle Smith Tamaray, Senior Speech Pathology Lecturer, ACU;
- Dr Natalie Berg, Speech Pathology Lecturer, ACU

Project partners:

- Alexis McMahon, Speech Pathology Manager, St Vincent's Hospital Sydney;
- Ashley Cuddy, Speech Pathologist, St Vincent's Hospital Sydney;
- Claire Rhydderch, Speech Pathologist, St Vincent's Hospital Sydney;
- Dr Lauren Christie, Allied Health Senior Implementation Science Research Fellow, St Vincent's Health Network Sydney

Allied Health Collaborations with Other University Partners

The Allied Health Research Unit partnered with Macquarie University on the following project:

The human impact of commercial delivery cycling injuries: A pilot retrospective cohort study

Students: Cameron Hemmert and Yu Chen Pang, Doctor of Physiotherapy

Supervisors:

- Dr Mitchell Sarkies, NHMRC Emerging Leadership Fellow, Centre for Healthcare Resilience and Implementation Science, Australian Institute of Health Innovation, Faculty of Medicine, Health and Human Sciences, Macquarie University;
- Dr Lauren Christie, Allied Health Senior Implementation Science Research Fellow, St Vincent's Health Network Sydney

Project partners:

- Dr Christine Shiner, Senior Research Officer, Department of Rehabilitation and Pain Medicine, St Vincent's Hospital Sydney;
- Karon McDonnell, NSQIP Coordinator, St Vincent's Hospital Sydney;
- Professor Rebecca Mitchell, Department of Management, Macquarie University;
- Dr Reidar Lystad, Research Fellow, Australian Institute of Health Innovation, Faculty of Medicine, Health and Human Sciences, Macquarie University;
- Dr Michael Novy, Staff Specialist, Emergency Medicine, St Vincent's Hospital Sydney

NRI and Allied Health Partnership continued

Allied Health Publications

PUBLICATIONS – Senior Implementation Science Research Fellow Allied Health, SVHNS

- 1 Cameron LJ, Wales K, Casey A, Pike S, Jolliffe L, Schneider EJ, Christie LJ, Ratcliffe J, Lannin NA. Self-reported quality of life following stroke: A systematic review of instruments with a focus on their psychometric properties. *Quality of Life Research* 2021; July 10. Epub ahead of print. DOI: [10.1007/s11136-021-02944-9](https://doi.org/10.1007/s11136-021-02944-9)
- 2 Christie LJ, Egan C, Wyborn J, Simpson GK. Evaluating client experience of rehabilitation following acquired brain injury: A cross-sectional study. *Brain Injury* 2021; 35(2):215–225. DOI: [10.1080/02699052.2020.1867768](https://doi.org/10.1080/02699052.2020.1867768)
- 3 Christie LJ, McCluskey A, Lovarini M. Implementation and sustainability of upper limb constraint-induced movement therapy programs for adults with neurological conditions: An international qualitative study. *Journal of Health Organization and Management* 2021; 35 (7): 904–923. Doi: [10.1108/JHOM-07-2020-0297](https://doi.org/10.1108/JHOM-07-2020-0297)
- 4 Levy T, Christie LJ, Killington M, Laver K, Crotty M, Lannin NA. “Just that four letter word, hope”: stroke survivors’ perspectives of participation in an intensive upper limb exercise program: A qualitative exploration. *Physiotherapy Theory and Practice* 2021; 1–15. DOI: [10.1080/09593985.2021.1875525](https://doi.org/10.1080/09593985.2021.1875525)
- 5 Zhu S, Sherrington C, Jennings M, Brady B, Pinheiro M, Dennis S, Christie LJ, Sidhu B, Haynes A, Greaves C, Hassett L. Current Practice of Physical Activity Counselling within Physiotherapy Usual Care and Influences on Its Use: A Cross-Sectional Survey. *International Journal of Environmental Research and Public Health* 2021; 18(9): 4762. DOI: [10.3390/ijerph18094762](https://doi.org/10.3390/ijerph18094762)

PUBLICATIONS – Members of SVHNS Allied Health Research Working Party

- 1 Black RJ, Novakovic D, Plit M, Miles A, MacDonald P, Madill C. Swallowing and laryngeal complications in lung and heart transplantation: Etiologies and diagnosis. *Journal of Heart and Lung Transplantation* 2021; 40:1483–1494. DOI: [10.1016/j.healun.2021.08.006](https://doi.org/10.1016/j.healun.2021.08.006)
- 2 Cashman H, Roberts DM, Welch SA, Joseph J. A case of a markedly elevated dabigatran concentration resistant to the approved dose of idarucizumab. *Internal Medicine Journal* 2021; 51(4): 616–617. DOI: [10.1111/imj.15278](https://doi.org/10.1111/imj.15278)
- 3 Cheng V, Abdul-Aziz MH, Burrows F, Buscher H, Corley A, Diehl A, Jakob SM, Levkovich BJ, Pellegrino V, Que Y-A, Reynolds C, Rudham S, Wallis SC, Welch SA, Zacharias D, Roberts JA, Shekar K, Fraser JF. Population pharmacokinetics of cefepime in critically ill patients receiving extracorporeal membrane oxygenation: An ASAP ECMO study. *International Journal of Antimicrobial Agents* 2021; 58(6): 106466. DOI: [10.1016/j.ijantimicag.2021.106466](https://doi.org/10.1016/j.ijantimicag.2021.106466)
- 4 Cheng V, Abdul-Aziz MH, Burrows F, Buscher H, Cho YJ, Corley A, Diehl A, Gilder E, Jakob SM, Kim HS, Levkovich BJ, Lim SY, McGuinness S, Parke R, Pellegrino V, Que YA, Reynolds C, Rudham S, Wallis SC, Welch SA, Zacharias D, Fraser JF, Shekar K, Roberts JA; ASAP ECMO Investigators. Population Pharmacokinetics of Piperacillin and Tazobactam in Critically Ill Patients Receiving Extracorporeal Membrane Oxygenation: An ASAP ECMO Study. *Antimicrobial Agents and Chemotherapy* 2021; 65(11): e0143821. DOI: [10.1128/AAC.01438-21](https://doi.org/10.1128/AAC.01438-21)
- 5 Crothers E, Kennedy DS, Emmanuel S, Molan N, Scott S, Rogers K, Glanville AR, Ntoumenopoulos G. Incidence of early diaphragmatic dysfunction after lung transplantation: results of a prospective observational study. *Clinical Transplantation* 2021; 35: e14409. <https://doi.org/10.1111/ctr.14409>
- 6 Curran L, Sharpe L, Butow P. Pilot of a novel theoretically derived intervention for cancer-related anxiety with patients with advanced or recurred disease. *Behavioural and Cognitive Psychotherapy* 2021; 49(2): 247–253. DOI: [10.1017/S1352465820000697](https://doi.org/10.1017/S1352465820000697)

NRI and Allied Health Partnership continued

- 7 **Featherston J**, Wijlens AM, van Netten JJ. Is a Left-to-Right $>2.2^{\circ}\text{C}$ Difference a Valid Measurement to Predict Diabetic Foot Ulceration in People with Diabetes and a History of Diabetic Foot Ulceration? *International Journal of Lower Extremity Wounds* 2021. DOI: [10.1177/15347346211062719](https://doi.org/10.1177/15347346211062719)
- 8 **Hall M**, Wakefield G. You can't race on an empty tank: the role of the dietitian and the impact of pre-operative nutrition support in heart and lung transplant. *Transplant Journal of Australasia* 2021; 30(2): 14–19. DOI: <https://doi.org/10.33235/tja.30.2.14-19>
- 9 Hansell L, Milross M, Delaney A, Tian DH, **Ntoumenopoulos G**. Lung ultrasound has greater accuracy than conventional respiratory assessment tools for the diagnosis of pleural effusion, lung consolidation and collapse: A systematic review. *Journal of Physiotherapy* 2021; 67(1): 41–48. DOI: [10.1016/j.jphys.2020.12.002](https://doi.org/10.1016/j.jphys.2020.12.002)
- 10 Hansell L, **Ntoumenopoulos G**. Clinimetrics: Quadriceps muscle ultrasound. *Journal of Physiotherapy* 2021; 67(4): 313. DOI: [10.1016/j.jphys.2021.05.001](https://doi.org/10.1016/j.jphys.2021.05.001)
- 11 Hodgson CL, Higgins AM, Bailey MJ, Mather AM, Beach L, Bellomo R, Bissett B, Boden IJ, Bradley S, Burrell A, Cooper DJ, Fulcher BJ, Haines KJ, Hopkins J, Jones AYM, Lane S, Lawrence D, van der Lee L, Liacos J, Linke NJ, Gomes LM, Nickels M, **Ntoumenopoulos G**, Myles PS, Patman S, Paton M, Pound G, Rai S, Rix A, Rollinson TC, Sivasuthan J, Tipping CJ, Thomas P, Trapani T, Udy AA, Whitehead C, Hodgson IT, Anderson S, Neto AS. COVID-Recovery Study Investigators and the ANZICS Clinical Trials Group. The impact of COVID-19 critical illness on new disability, functional outcomes and return to work at 6 months: A prospective cohort study. *Critical Care* 2021; 25(1): 382. DOI: [10.1186/s13054-021-03794-0](https://doi.org/10.1186/s13054-021-03794-0)
- 12 Jain N, Stech E, Grierson AB, Sharrock MJ, Li I, **Mahoney AEJ**, Newby JM. A pilot study of intensive 7-day internet-based cognitive behavioral therapy for social anxiety disorder. *Journal of Anxiety Disorders* 2021; 84: 102473. DOI: [10.1016/j.janxdis.2021.102473](https://doi.org/10.1016/j.janxdis.2021.102473)
- 13 Joubert AE, Grierson AB, Chen AZ, Moulds ML, Werner-Seidler A, **Mahoney AEJ**, Newby JM. Managing rumination and worry: A pilot study of an internet intervention targeting repetitive negative thinking in Australian adults. *Journal of Affective Disorders*. 2021; 1; 294: 483–490. DOI: [10.1016/j.jad.2021.07.076](https://doi.org/10.1016/j.jad.2021.07.076)
- 14 Lewis K, Almubarak Y, Hylander Møller M, Jaeschke R, Perri D, Zhang Y, Du B, Nishida O, **Ntoumenopoulos G**, Saxena M, Truwit J, Young PJ, Alshamsi F, Arabi YM, Rochweg B, Karachi T, Szczeklik W, Alshahrani M, Machado FR, Annane D, Antonelli M, Girard TD, Cook D, Baw B, Nanchal R, Piraino T, Guyatt G, Alhazzani W, The GUIDE Group. The cuff leak test in critically ill patients: An international survey of intensivists. *Acta Anaesthesiologica Scandinavica* 2021; 65 (8): 1087–1094. DOI: [10.1111/aas.13838](https://doi.org/10.1111/aas.13838)
- 15 Li I, Millard M, Haskelberg H, Hobbs M, Luu J, **Mahoney AEJ**. COVID-19 related differences in the uptake and effects of internet-based cognitive behavioural therapy for symptoms of obsessive-compulsive disorder. *Behavioural and Cognitive Psychotherapy* 2021; Nov 10: 1–18 DOI: [10.1017/S1352465821000448](https://doi.org/10.1017/S1352465821000448)
- 16 **Mahoney AEJ**, Elders A, Li I, David C, Haskelberg H, Guiney H, Millard M. A tale of two countries: Increased uptake of digital mental health services during the COVID-19 pandemic in Australia and New Zealand. *Internet Interventions* 2021; 25: 100439. DOI: [10.1016/j.invent.2021.100439](https://doi.org/10.1016/j.invent.2021.100439)
- 17 **Mahoney AEJ**, Haskelberg H, Mason E, Millard M, Newby J. Comorbid personality difficulties are not associated with poorer outcomes for online cognitive behaviour therapy for symptoms of anxiety and depression. *Personality and Mental Health* 2021; 15(3): 173–185. DOI: [10.1002/pmh.1506](https://doi.org/10.1002/pmh.1506)
- 18 **Mahoney AEJ**, Li I, Haskelberg H, Millard M, Newby JM. The uptake and effectiveness of online cognitive behaviour therapy for symptoms of anxiety and depression during COVID-19. *Journal of Affective Disorders* 2021; 292: 197–203. DOI: [10.1016/j.jad.2021.05.116](https://doi.org/10.1016/j.jad.2021.05.116)
- 19 Martínez-Alejos R, Martí J-D Li Bassi G, Gonzalez-Anton D, Pilar-Diaz X, Reginault T, Wibart P, **Ntoumenopoulos G**, Tronstad O, Gabarrus A, Quinart A, Torres A. Effects of mechanical insufflation-exsufflation on sputum volume in mechanically ventilated critically ill subjects. *Respiratory Care* 2021; 66(9): 1371–1379. DOI: [10.4187/respcare08641](https://doi.org/10.4187/respcare08641)

NRI and Allied Health Partnership continued

- 20 McMaster CM, Fong M, Franklin J, **Hart S**. Dietetic intervention for adult outpatients with an eating disorder: a systematic review and assessment of evidence quality. *Nutrition Reviews* 2021; 79(8): 914–30. DOI: [10.1093/nutrit/nuaa105](https://doi.org/10.1093/nutrit/nuaa105)
- 21 McMaster CM, Wade T, Basten C, Franklin J, Ross J, **Hart S**. Rationale and development of a manualised dietetic intervention for adults undergoing psychological treatment for an eating disorder. *Eating and Weight Disorders* 2021; 26(5): 1467–1481. DOI: [10.1007/s40519-020-00955-y](https://doi.org/10.1007/s40519-020-00955-y)
- 22 McMaster CM, Wade T, Franklin J, **Hart S**. A review of treatment manuals for adults with an eating disorder: nutrition content and consistency with current dietetic evidence. *Eating and Weight Disorders* 2021; 26(1): 47–60. DOI: [10.1007/s40519-020-00850-6](https://doi.org/10.1007/s40519-020-00850-6)
- 23 Merson F, Newby J Shires A, Millard M, **Mahoney A**. The temporal stability of the Kessler Psychological Distress Scale. *Australian Psychologist* 2021; 5(1): 38–45. DOI: [10.1080/0005006720211893603](https://doi.org/10.1080/0005006720211893603)
- 24 Newby J, Mason E, Kladniski N, Murphy M, Millard M, Haskelberg H, Allen A, **Mahoney A**. Integrating internet CBT into clinical practice: a practical guide for clinicians. *Clinical Psychologist* 2021; 25(2): 164–178. DOI: [10.1080/1328420720201843968](https://doi.org/10.1080/1328420720201843968)
- 25 **Ntoumenopoulos G**, Buscher H, Scott S. Lung ultrasound score as an indicator of dynamic lung compliance during veno-venous extra-corporeal membrane oxygenation. *International Journal of Artificial Organs* 2021; 44(3): 194–198. DOI: [10.1177/0391398820948870](https://doi.org/10.1177/0391398820948870)
- 26 **Prior K**, Salemink E, Wiers RW, Teachman BA, Piggott M, Newton NC, Teesson M, Baillie AJ, Manning V, McLellan LF, Mahoney A, Stapinski LA. A web-based cognitive bias modification intervention (Re-train Your Brain) for emerging adults with co-occurring social anxiety and hazardous alcohol use: Protocol for a multiarm randomized controlled pilot trial. *JMIR Research Protocols* 2021; 10(7): e28667. DOI: [10.2196/28667](https://doi.org/10.2196/28667)
- 27 Sharrock M, **Mahoney AEJ**, Haskelberg H, Millard M, Newby JM. The uptake and outcomes of Internet-based cognitive behavioural therapy for health anxiety symptoms during the COVID-19 pandemic. *Journal of Anxiety Disorders* 2021; 84: 102494. DOI: [10.1016/j.janxdis.2021.102494](https://doi.org/10.1016/j.janxdis.2021.102494)
- 28 **Shiner CT**, Vratisstas-Curto A, Bramah V, McDonnell K, **Mahoney AEJ**, Sweeney S, Faux SG. Assessing unmet rehabilitation needs and the feasibility of a telehealth rehabilitation consultation service for road trauma survivors recently discharged from hospital. *Disability and Rehabilitation* 2021; 5(19): 1–10. DOI: [10.1080/0963828820211887377](https://doi.org/10.1080/0963828820211887377)
- 29 Stech EP, Chen AZ, Sharrock MJ, Grierson AB, Upton EL, **Mahoney AEJ**, Grisham JR, Newby JM. Internet-delivered exposure therapy versus internet-delivered cognitive behavioral therapy for panic disorder: A pilot randomized controlled trial. *Journal of Anxiety Disorders* 2021; 79: 102382. DOI: [10.1016/j.janxdis.2021.102382](https://doi.org/10.1016/j.janxdis.2021.102382)
- 30 Thomas P, Baldwin C, Bissett B, Boden I, Gosselink R, Granger CL, Hodgson C, Jones AY, Kho ME, Moses R, **Ntoumenopoulos G**, Parry SM, Patman S, van der Lee L. Physiotherapy management for COVID-19 in the acute hospital setting and beyond: An update to clinical practice recommendations. *Journal of Physiotherapy* 2021; 68(1) 8–25. DOI: [10.1016/j.jphys.2021.12.012](https://doi.org/10.1016/j.jphys.2021.12.012)
- 31 West M, Staudacher HM, Loughman A, Rocks T, McMaster CM, **Hart S**, Jacka FN, Stewart T, Ruusunen A. Gastrointestinal symptoms following treatment for anorexia nervosa: A systematic literature review. *International Journal of Eating Disorders* 2021; 54(6): 936–51. DOI: [10.1002/eat.23469](https://doi.org/10.1002/eat.23469)
- 32 **Woolf C**, Lampit A, Shahnavaz Z, Sabates J, Norrie LM, Burke D, Naismith SL, Mowszowski LA. Systematic Review and Meta-Analysis of Cognitive Training in Adults with Major Depressive Disorder. *Neuropsychology Review* 2021; DOI: [10.1007/s11065-021-09487-3](https://doi.org/10.1007/s11065-021-09487-3)

NRI Honorary Clinical Fellows

NRI honorary clinical fellowships are awarded in acknowledgement of the contribution made by individuals to NRI research and corporate activities. Current NRI Honorary Clinical Fellows are listed below, and we thank them for their ongoing contribution and support.

Dr Makhmudjon Bakhramov

Neurologist, Tashkent Pediatric Medical Institute, Tashkent, Uzbekistan
Contribution to the NRI Quality in Acute Stroke Care Europe (QASC) Europe Project

Professor Anne-Kathrin Cassier-Woidasky

Professor for Nursing, Saarland University of Applied Sciences, Germany
Contribution to the NRI Quality in Acute Stroke Care Europe (QASC) Europe Project

Dr Mahnaz Fanaian

Lecturer in Nursing in the School of Nursing, Midwifery & Paramedicine ACU, Faculty of Health Sciences
Contribution to the NRI research program

Associate Professor Mariane Klinke

Associate Professor and Academic Chair of Research and Development in Nursing Care (Neurology), Faculty of Nursing, University of Iceland, Iceland
Contribution to the NRI Quality in Acute Stroke Care Europe (QASC) Europe Project

Teresa Kolacna

Department Nurse, University Hospital Motol, Department of Neurology, Czech Republic
Contribution to the NRI Quality in Acute Stroke Care Europe (QASC) Europe Project

Dr Nino Lobjanidze

Neurologist, Pineo Medical Ecosystem, Georgia
Contribution to the NRI Quality in Acute Stroke Care Europe (QASC) Europe Project

Professor Judy Lumby AO

Emeritus Professor, University of Technology Sydney
Contribution as an esteemed member of the NRI Steering Committee and ongoing support and promotion for the NRI

Dr Sabina Medukhanova

Head Specialist, National Neurosurgery Centre, Kazakhstan
Contribution to the NRI Quality in Acute Stroke Care Europe (QASC) Europe Project

Gert Messchendorp

Nurse Practitioner, Vascular Neurology, University Medical Center Groningen, Department of Neurology, The Netherlands
Contribution to the NRI Quality in Acute Stroke Care Europe (QASC) Europe Project

Kirsty Page

Stroke Clinical Nurse Consultant, St Vincent's Hospital Sydney
Contribution to NRI stroke research projects at St Vincent's Hospital Sydney

Merce Plana

Pla Director, Malaltia Vascular Cerebral / Catalan Stroke Program, Agency for Health Quality and Assessment of Catalonia, Departament de Salut, Generalitat de Catalunya, Spain
Contribution to the NRI Quality in Acute Stroke Care Europe (QASC) Europe Project

Kuinov Rina

Head Nurse, Neurology Department and Stroke Unit, Shaare Zedek Medical Center, Israel
Contribution to the NRI Quality in Acute Stroke Care Europe (QASC) Europe Project

NRI Honorary Clinical Fellows continued

Susana Salselas

Nurse, General Medicine Ward and Rehabilitation Nurse, Stroke Unit, Unidade Local de Saúde do Nordeste, Unidade Hospitalar de Macedo de Cavaleiros, Portugal
Contribution to the NRI Quality in Acute Stroke Care Europe (QASC) Europe Project

Dr Estela Sanjuan Menendez

Stroke Research Coordinator, Fundacio Institut de Recerca de L'Hospital Universiad, Vall d'Hebron Barcelona, Spain
Contribution to the NRI Quality in Acute Stroke Care Europe (QASC) Europe Project

Dr Marcelina Skrzypek-Cerko

Nurse, Clinical University Hospital, Gdańsk, Poland, Department of Adult Neurology
Contribution to the NRI Quality in Acute Stroke Care Europe (QASC) Europe Project

Joanne Taylor

Nurse Manager Clinical Practice and Innovation, St Vincent's Hospital Sydney
Contribution to NRI research projects at St Vincent's Hospital Sydney

Antonella Urso

Hospital Networks Division, Public Health Department, Lazio Regional Government, Italy
Contribution to the NRI Quality in Acute Stroke Care Europe (QASC) Europe Project



Conferences – National and International

National and International in chronological order • Presenters underlined, NRI staff in bold

● 5th Australian Nursing and Midwifery Conference, Newcastle: 6–7 May 2021

Martinez-Garduno C, Rodgers J, Phillips R, Gunaratne A, Drury P, **McInnes E**. *Surgical Patients' Pressure Injury Incidence (SPPII): A Prospective Cohort Study*. [Oral Presentation]

● Australian College of Critical Care Nurses Annual Education Meeting, Canberra: 13–14 May 2021

Causby B, Whittam S, Black E, Byerley S. Successful implementation of an innovative nursing upskill education program to facilitate pandemic ICU surge capacity. [Oral Presentation] *Awarded best presentation*

● Stroke Recovery Association NSW Building Capacity Conference, Sydney: 20 May 2021

Christie LJ. New Technologies in Upper Limb Rehabilitation. [Oral Presentation]

● Occupational Therapy 29th Australia National Conference and Exhibition, Virtual: 23–25 June 2021

Levy T, Christie LJ, Killington M, Laver K, Crotty M, Lannin NA. *Factors influencing adherence to intensive upper limb exercise programs: Stroke survivors' perspectives*. [Oral Presentation]

● 14th Annual National Allied Health Conference, Virtual: 9–12 August 2021

Starkey A, Lincoln L, Christie LJ. *The impact of pre-operative Speech Pathology assessment and intervention on swallowing and health outcomes following a 3-stage oesophagectomy: A before and after study*. [Oral Presentation]

Levy T, Christie LJ, Killington M, Laver K, Crotty M, Lannin NA. *Factors influencing adherence to intensive upper limb exercise programs: Stroke survivors' perspectives*. [Oral Presentation]

● Smart Strokes Conference, Virtual: 12–13 August 2021

Dale S, Bangee M, **Martinez-Garduno C**, Brady M, Cadilhac DA, Hurley M, **McInnes E**, **Middleton S**, Patel T, Watkins DCL, Lightbody C. *Oral care practices after stroke: A Survey from UK & Australia*. [Oral Presentation]

Middleton S, **Dale S**, **McElduff B**, **Coughlan K**, **McInnes E**, Fischer T, Van der Merwe J, Havalda R, Grecu A, Mikulik R, Cadilhac DA, D'Este C, Levi C, Grimshaw JM, Quinn C, Cheung NW and Pfeilschifter W. *Large Scale European Translation of an Australian Nursing Stroke Trial: The QASC Europe Project*. [Oral Presentation]

Levy T, Christie LJ, Killington M, Laver K, Crotty M, Lannin NA. *Stroke survivors' perspectives of factors influencing adherence to an intensive upper limb exercise program*. [Oral Presentation] *Awarded Best Research Abstract*

● European Stroke Organisation Conference, Virtual: 1–3 September 2021

Kolacna T, Tomek A, Pospichalova J, Poschlova P, Neumann J, Bilanova A, Palouskova H, Sukop R, Brzezanski H, Cernik D, Ctvrtickova L, Stepan P, Tvrda K, Novak A, Frycova E, Kadlcikova J, **Dale S**, D'Este C, **McElduff B**, **Coughlan K**, **McInnes E**, **Middleton S**. *Implementation of Fever, Sugar, Swallow (FeSS) protocols in Czech Republic: Results from the Quality in Acute Stroke Care (QASC) Europe project*. [Poster Presentation]

Middleton S, **Dale S**, **McElduff B**, **Coughlan K**, **McInnes E**, Fischer T, Van der Merwe J, Havalda R, Grecu A, Mikulik R, Cadilhac DA, D'Este C, Levi C, Grimshaw JM, Quinn C, Cheung NW and Pfeilschifter W on behalf of the QASC Europe Steering and Implementation Committees. *Implementing nurse-initiated protocols to improve fever hyperglycemia and swallowing management post-stroke: Results from the Quality in Acute Stroke Care (QASC) Europe Project*. [Oral Presentation]

Conferences – National and International continued

Middleton S, **Dale S**, **McElduff B**, **Coughlan K**, **McInnes E**, Fischer T, Van der Merwe J, Havalda R, Grecu A, Mikulik R, Cadilhac DA, D'Este C, Levi C, Grimshaw JM, Quinn C, Cheung NW and Pfeilschifter W on behalf of the QASC Europe Steering and Implementation Committees. *The successful implementation of nurse-initiated protocols in a multidisciplinary collaboration: Results of the Quality in Acute Stroke Care Europe Project*. Angels Symposium. [Oral Presentation]

Skrzypek-Czerko M, Kubach M, Buczkowski D, Fudala M, Banaszewska J, Kozak K, Drag J, Rogoziewicz M, Koperska I, Filipka K, Wisniewski A, Wanago A, Marciniak P, Sobolewski P, Merdykowska A, Kopala-Mazur R, Sondej M, Adamkiewicz B, Wiklo I, Karolinska A, **Dale S**, D'Este C, **McElduff B**, **Coughlan K**, **McInnes E**, **Middleton S**. *Implementation of Fever, Sugar, Swallow (FeSS) protocols in Poland: results from the Quality in Acute Stroke Care (QASC) Europe project*. [Poster Presentation]

Salselas S, Ledesma N, Oliveria D, Peralta T, Freitas F, Morais D, Abrantes MF, Nobre P, Queiros S, Barbosa E, Oliveria A, Pereira J, **Dale S**, D'Este C, **McElduff B**, **Coughlan K**, **McInnes E**, **Middleton S**. *Implementation of Fever, Sugar, Swallow (FeSS) protocols in Portugal: Results from the quality in acute stroke care (QASC) Europe project*. [Oral and Poster Presentation]

Salvat-Plana M, Sanjuan-Menendez E, Pancorbo-Rosal O, Santana K, Gomez-Vicente B, de Lera M, Villar C, Marta Moreno J, Valderrama A, Caro R, Aguayo MT, Valiñas F, García-Gálvez JA, López Pascual EM, Estefania Pascual E, Hidalgo V, Dominguez J, Enguix P, Barberá M, Gutierrez J, Acevedo M, Morel S, Sánchez-Díez G, Navas Vinagre I, García Torres A, Álvarez A, Zurdo F, **Dale S**, D'Este C, **McElduff B**, **Coughlan K**, **McInnes E**, **Middleton S**. *Implementation of Fever, Sugar, Swallow (FeSS) protocols in Spain: Results from the Quality in Acute Stroke Care (QASC) Europe project*. [Poster Presentation]

Urso A, Di Vito G, Attolini F, Piscitelli P, Laurito G, Di Fiore G, Terruso V, Baffa SR, Pezzella FR, Amitrano A, **Dale S**, D'Este C, **McElduff B**, **Coughlan K**, **McInnes E**, **Middleton S**. *Implementation of Fever, Sugar, Swallow (FeSS) protocols in Italy: Results from the Quality in Acute Stroke Care (QASC) Europe project*. [Poster Presentation]

Cadilhac D, Kim J, Cloud G, Anderson C, Tod E, Breen S, Faux S, Kleinig T, Castley H, Lindley R, **Middleton S**, Yan B, Hill K, Jones B, Shah D, Jaques K, Clissold B, Campbell B and Lannin N. *Quality of acute stroke care provided outside of stroke units declined during the COVID-19 pandemic in Australia*.

● British Aphasiology Society Conference, Virtual: 8 September 2021

Shiggins C, Ryan B, Dewa F, Bernhardt J, O'Halloran R, Power E, Lindley RI, **Middleton S**, McGurk G, Rose ML. *Supporting stroke researchers to include people with aphasia in their research: What we know and where are the gaps?* [Poster Presentation]

● 18th National Nurse Education Conference, Gold Coast: 8–10 September 2021

Byerley S, Whittam S, Causby B, Black E, Conlon L, McLeod P. *Consolidating ICU nursing knowledge and skills in practice: An evaluation of a COVID-19 upskilling program*. [Oral Presentation]

● Stroke Society of Australasia (SSA) Stroke Conference, Virtual: 12–15 October 2021

McInnes E, **Dale S**, **Craig L**, **Philips R**, **Fasugba O**, **Schadewaldt V**, Cheung NW, Cadilhac DA, Grimshaw JM, Levi C, Considine J, McElduff P, Gerraty R, Fitzgerald M, Ward J, D'Este C, **Middleton S**. *Improving stroke care – a process evaluation of factors influencing implementation of nurse-led protocols (QASC Europe)*. [Oral Presentation]

Middleton S, Ferguson C. *The stroke nurse in 2025 and beyond*. [Oral Presentation]

Conferences – National and International continued

Middleton S, Dale S, McElduff B, Coughlan K, McInnes E, Fischer T, Van der Merwe J, Havalda R, Grecu A, Mikulik R, Cadilhac DA, D'Este C, Levi C, Grimshaw JM, Quinn C, Cheung NW and Pfeilschifter W on behalf of the QASC Europe Steering and Implementation Committees. *Future proofing excellence in stroke care: Translation of nurse-initiated protocols for fever, hyperglycaemia and swallowing management across Europe (QASC Europe Project).* ****Closing Plenary Chair****

Ouyang M, Roffe C, Billot L, Song L, Wang X, Munoz-Venturelli P, Lavados P, Robinson TG, Middleton S, Olavarria VV, Watkins CL, Lee TH, Brunser AM, Pontes-Neto OM, Hackett ML, Anderson CS. *Oxygen desaturation and adverse outcomes in acute stroke: Secondary analysis of the HeadPoST study.* [Oral Presentation]

Purvis T, Middleton S, Alexandrov AW, Kilkenny MF, Coote S, Kuhle S, Cadilhac DA. *Responsibilities and characteristics of clinical coordinators in stroke: Does experience really matter?* [Oral Presentation]

Shiggins C, Ryan B, Bernhardt J, Lindley RI, Middleton S, Dewan F, Rose ML. *Including people with aphasia in stroke research: Perspectives of stroke researchers across disciplines.*

Cadilhac DA, Kim J, Cloud G, Anderson C, Tod E, Breen S, Faux S, Kleinig T, Castley H, Lindley R, Middleton S, Yan B, Hill K, Jones B, Shah D, Jaques K, Clissold B, Campbell B, Lannin N. *Quality of acute stroke care during the COVID-19 pandemic in Australia.* [Oral Presentation]

Kim J, Godecke E, Sookram G, Armstrong E, Ellery F, Rai T, Rose ML, Ciccone N, Middleton S, Holland A, Hankey G, Bernhardt J, Cadilhac DA. *The cost effectiveness of intensive aphasia therapy after stroke.* [Oral Presentation]

● International Conference for Emergency Nurses, Virtual: 13–15 October 2021

Kourouche S, Curtis K, Munroe B, Buckley T, Asha S, Considine J, Fry M, Middleton S, Mitchell R, Shaban RZ. *Implementation evaluation of a blunt chest injury care bundle (CHIP).* [Oral Presentation]

● World Stroke Conference, Virtual: 28–29 October 2021

Purvis T, Middleton S, Alexandrov A, Kilkenny M, Kuhle S, Cadilhac D. *Do responsibilities of stroke clinical coordinators vary across countries?* [Poster Presentation]

Middleton S, Dale S, McElduff B, Coughlan K, McInnes E, Fischer T, Van der Merwe J, Havalda R, Grecu A, Mikulik R, Cadilhac DA, D'Este C, Levi C, Grimshaw J, Quinn C, Cheung NW and Pfeilschifter W on behalf of the QASC Europe Trialists. *The successful implementation of nurse-initiated protocols in a multidisciplinary collaboration: The results of the QASC Europe project.* [Angels symposium]

Cadilhac DA, Kim J, Cloud G, Anderson C, Tod E, Breen S, Faux S, Kleinig T, Castley H, Lindley R, Middleton S, Yan B, Hill K, Jones B, Shah D, Jaques K, Clissold B, Campbell B, Lannin N. *The detrimental impact of not maintaining access to stroke units during the COVID-19 pandemic.* [Oral Presentation]

● Centre for Behaviour Change Conference, Virtual: 1–3 November 2021

Middleton S, McInnes E, Ferguson C, Coughlan K. *The Quality in Acute Stroke Care (QASC) translational research program: From evidence generation to international scale-up of nurse-initiated stroke protocols. Lessons from a 15-year program.* [Oral Presentation – Symposia]

Middleton S, Dale S, Coughlan K, Cadilhac DA, Levi C, Grimshaw JM, Quinn C, Cheung NW and D'Este C on behalf of the QASC Trialists (Abstract 1). *The Quality in Acute Stroke Care (QASC) translational research program: From trial results to state-wide clinical implementation.* [Oral Presentation – Symposia]

Conferences – National and International continued

Middleton S, Dale S, McElduff B, Coughlan K, McInnes E, Fischer T, Van der Merwe J, Havalda R, Grecu A, Mikulik R, Cadilhac D, D'Este C, Levi C, Grimshaw JM, Quinn C, Cheung NW and Pfeilschifter W on behalf of the QASC Europe Steering and Implementation Committees (Abstract 2). *Quality in Acute Stroke Care (QASC) Europe Project: International upscale and implementation of nurse-initiated multi-disciplinary protocols in 17 countries in Europe.* [Oral Presentation – Symposia]

McInnes E, Bagot K, Dale S, Coughlan K, Grimshaw JM, Pfeilschifter W, Cadilhac DA, Middleton S on behalf of the QASC Europe Steering and Implementation Committees (Abstract 3). *Process evaluation of the Quality in Acute Stroke Care (QASC) Europe translational research project: factors influencing remote facilitation of international upscale of nurse-led stroke protocols.* [Oral Presentation – Symposia]

● German Society for Neurology (DGN), Virtual: 5 November 2021

Middleton S, Dale S, McElduff B, Coughlan K, McInnes E, Fischer T, Van der Merwe J, Havalda R, Grecu A, Mikulik R, Cadilhac DA, D'Este C, Levi C, Grimshaw JM, Quinn C, Cheung NW and Pfeilschifter W. *Quality in Acute Stroke Care (QASC) Europe results.* ****Invited speaker****

● Australasian College for Infection Prevention and Control (ACIPC) Conference, Virtual: 8–10 November 2021

Fasugba O, McInnes E, Baye J, Cheng H, Gordon R, Middleton S. *Barriers and enablers to implementing hospital-acquired urinary tract infection prevention strategies: A qualitative study using the theoretical domains framework.* [Oral Presentation]

● Australasian Clinical Trials Association (ACTA) Conference, Virtual: 10–12 November 2021

Eckert M, Sharplin G, Baird K, Finn J, Gray R, Gilkiso A, Homer C, Keogh S, Middleton S, Neville R, Rickard C, Whitehead L, Yates P. *Developing the Australasian Nursing and Midwifery Clinical Research Network.* [Poster Presentation]

Middleton S on behalf of the QASC Europe Trialists. *Using an international registry to upscale implementation of nurse-initiated protocols in 17 countries in Europe; The Quality in Acute Stroke Care (QASC) Europe Project.* ****Invited Plenary Speaker****

● Australasian Neuroscience Nurses Association (ANNA) Conference, Virtual: 11–12 November 2021

Middleton S, Dale S, McElduff B, Coughlan K, McInnes E, Fischer T, Van der Merwe J, Havalda R, Grecu A, Mikulik R, Cadilhac DA, D'Este C, Levi C, Grimshaw JM, Quinn C, Cheung NW and Pfeilschifter W on behalf of the QASC Europe Steering and Implementation Committees. *Large scale implementation of nurse-initiated protocols for fever, hyperglycaemia and swallowing management: The results of the QASC Europe Project.* [Oral Presentation]

● UK Stroke Forum, Virtual: 30 November–2 December 2021

Middleton S, Dale S, McElduff B, Coughlan K, McInnes E, Fischer T, Van der Merwe J, Havalda R, Grecu A, Mikulik R, Cadilhac DA, D'Este C, Levi C, Grimshaw JM, Quinn C, Cheung NW and Pfeilschifter W on behalf of the QASC Europe Steering and Implementation Committees. *Large scale implementation of nurse-initiated protocols for fever, hyperglycaemia and swallowing management: The results of the QASC Europe Project.* [Oral Presentation]

Invited Speaker – National and International

Presenters underlined, NRI staff in bold

● **Australasian Neuroscience Nurses' Association Seminar, Virtual: 2 March 2021**

Dale S. *Quality in Acute Stroke Care (QASC) Program of Research.*

● **Black Dog Institute – The Exchange Implementation Science Speaker Series, 3 March 2021**

Christie LJ. *How to implement a complex evidence-based intervention: Constraint-induced movement therapy (CIMT) implementation in South Western Sydney Local Health District (SWSLHD) as a case example.*

● **University of Tennessee, Nursing and Neurology PhD Seminar, Virtual: 4 May 2021**

Middleton S. *How do you get clinicians to change their behaviour and implement evidence?*

● **Australian Catholic University, School of Nursing Midwifery and Paramedicine presentation, Virtual: 20 August 2021**

Middleton S, McInnes E. *Developing a Program of Research.*

● **Faculty of Health Sciences Early Career Researcher/Medical Career Research Seminar Series, Virtual: 23 August 2021**

Middleton S, Taylor J. *Research Partnerships.*

● **QASC Europe in Poland, Virtual: 8 October 2021**

Middleton S, Dale S, McElduff B, Coughlan K, McInnes E, Fischer T, Van der Merwe J, Havalda R, Grecu A, Mikulik R, Cadilhac DA, D'Este C, Levi C, Grimshaw JM, Quinn C, Cheung NW and Pfeilschifter W. *Quality in Acute Stroke Care (QASC) Europe results.*

● **2021 National Stroke Quality Improvement Workshop, Virtual: 4 November 2021**

Middleton S. *Update on the Australian Stroke Clinical Registry (AuSCR) program and using data for quality improvement.*

Presentations St Vincent's Hospital Sydney

Presenters underlined, NRI staff in bold

Middleton S. *Nursing Research.* Internal Nurses Day Award Ceremony. Invited Speaker – 12 May 2021.

Middleton S, Dale S, McElduff B, Coughlan K, McInnes E, Fischer T, Van der Merwe J, Havalda R, Grecu A, Mikulik R, Cadilhac DA, D'Este C, Levi C, Grimshaw JM, Quinn C, Cheung NW and Pfeilschifter W on behalf of the QASC Europe Steering and Implementation Committees. *QASC Program of Research.* Presentation to St Vincent's Clinic Foundation. Invited Speakers – 15 September 2021.

Middleton S, Thornton A. *Nursing Research.* Presentation to St Vincent's Nursing Excellence Committee. Invited Speakers – 22 September 2021.

Middleton S, Dale S, McElduff B, Coughlan K, McInnes E, Fischer T, Van der Merwe J, Havalda R, Grecu A, Mikulik R, Cadilhac DA, D'Este C, Levi C, Grimshaw JM, Quinn C, Cheung NW and Pfeilschifter W on behalf of the QASC Europe Steering and Implementation Committees. *Large Scale Implementation of Nurse-Initiated Protocols for fever, hyperglycaemia and swallowing management: The results of the QASC Europe Project.* Medical Grand Rounds. Invited Speaker – 30 November 2021.

St Vincent's Hospital Melbourne

Presenters underlined, NRI staff in bold

● **Aikenhead Centre for Medical Discovery Research Week, St Vincent's Hospital Melbourne, Virtual: 2–6 August 2021**

Fasugba O, McInnes E, Baye J, Cheng H, Gordon R, Middleton S. *Barriers and enablers to implementing hospital-acquired urinary tract infection prevention strategies: A qualitative study using the theoretical domains framework.* [Moderated Oral Poster Presentation] *Best Poster Presentation*

Wan CS. *A multidisciplinary, community-based program to reduce unplanned hospital admissions.* [Oral Presentation]

McInnes E, Dale S, Craig L, Philips R, Fasugba O, Schadewaldt V, Cheung NW, Cadilhac DA, Grimshaw JM, Levi C, Considine J, McElduff P, Gerraty R, Fitzgerald M, Ward J, D'Este C, Middleton S. *Quality in Acute Stroke Care (QASC) Europe Project: International translation of nurse-initiated protocols to manage fever, hyperglycemia and swallowing complications after stroke and factors influencing their uptake.* [Oral Presentation]

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