

**Nursing
Research
Institute**

Annual Report

20 20

2020 at a glance

2020

21 staff + **20** clinician researchers

9 grants in 2020
2 x Category 1 grants
3 x Category 2 grants
4 x Category 3 grants
(includes 1 international grant)

total funds awarded in 2020
\$5,175,253

31 peer-reviewed publications in 2020
170 total since 2009

research projects in 2020
32

NRR | **NURSING RESEARCH INSTITUTE**

St Vincent's Health Network Sydney | St Vincent's Hospital Melbourne
Australian Catholic University

educational program
17 seminars • 313 attendees
10 workshops • 206 attendees
1 symposium • 202 attendees

16 research projects with SVHA partners

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 research, focused on improving patient outcomes and health systems.

Since 2009, the NRI has brought together researchers and clinicians to conduct clinically relevant research, specialising in implementation science research to understand the best ways to promote the translation of evidence into clinical practice. Our researchers have a broad range of research expertise, and collaborate with world-class national and international researchers, multidisciplinary clinicians and policy makers with a focus on increasing patient safety and reducing hospital-acquired complications.

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 2020 Annual Report for the Nursing Research Institute (NRI).

While challenged by the global pandemic, we were fortunate to keep the majority of our research projects active for another industrious year. In 2020, the NRI team consisted of **21** core staff, located across New South Wales, the Australian Capital Territory and Victoria. The team worked across **32** projects, of which **16** 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 **9** new grants totalling over **\$5.1M**, two funded by the National Health and Medical Research Council. NRI researchers were first or co-authors on **31** publications in high-impact journals. In this report we showcase the NRI people, research projects, funding achievements, peer-reviewed publications, and news and media from throughout the year.



Professor Sandy Middleton
Director



Professor Elizabeth McInnes
Deputy Director

Highlights include:

- A \$1.35M National Health and Medical Research Council (NHMRC) Investigator Grant was awarded to the NRI's Director, Professor Sandy Middleton. The grant '*Transforming acute hospital care to improve outcomes for stroke*' will build on Professor Middleton's current program of stroke research.
- The NRI's Deputy Director, Professor Elizabeth McInnes, was part of an investigator team led by Griffith University that was awarded an NHMRC Centre of Research Excellence (CRE) \$2.5M grant. The CRE will develop research and research capacity in disinvesting from low-value wound care, a common source of wasted hospital resources.
- The completion of our first successful clinician research internship funded by Maridulu Budyari Gumal Sydney Partnership for Health, Education, Research and Enterprise (SPHERE), St Vincent's Hospital Sydney and St Vincent's Health Australia.
- Dr Cintia Martinez-Garduno and the Australian Catholic University and St Vincent's Hospital Sydney team were runner-up for the Best Original Research Article in the Coloplast Biatain Literary Awards for 2019 for their paper, '*The Surgical Patients' Pressure Injury Incidence (SPPII) study: a cohort study of surgical patients and processes of care*'.
- Research sessions offered on-line this year due to COVID-19 resulted in our largest clinical audiences to date.

- During the Sydney St Vincent's Campus Research Week, 14-18 September, the NRI held the Allied Health & Nursing Research Symposium showcasing allied health and nursing research from Sydney and Melbourne St Vincent's Health Australia campuses.
- In September, we welcomed Margaret Lazar, Director of Allied Health, St Vincent's Health Network Sydney, to the NRI Steering Committee. With the appointment in 2019 of Allied Health Senior Research Fellow, Lauren Christie, an allied health research program and research capacity building has been established.

We farewelled Professor Michelle Campbell, Executive Dean, Faculty of Health Science at the Australian Catholic University. As an NRI Steering Committee member, Professor Campbell has been one of the NRI's strongest advocates and supporters since its inception in 2009. On behalf of the NRI and our health partners, we want to thank Professor Campbell for all her support and wish her all the best in her next venture.

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 that you enjoy reading the NRI's year in review for 2020.

*Professor Sandy Middleton
Professor Elizabeth McInnes*

NRI 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 and Management Committees



Adjunct Professor Anna Thornton
(2020 Chair - Management Committee)
Director of Nursing
St Vincent's Health Network Sydney



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

NRI Management Committee only



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



Lauren Culbert
Nursing and Operations Manager
St Joseph's Hospital Sydney

NRI Steering Committee only



Adjunct Professor Anthony Schembri AM
(2020 Chair - Steering Committee)
Chief Executive Officer
St Vincent's Health Network Sydney



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



Margaret Lazar (from Sept 2020)
Director of Allied Health
St Vincent's Health Network Sydney

External

NRI Steering Committee



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

Australian Catholic University

NRI Steering Committee



Professor Michelle Campbell
Executive Dean
Faculty of Health Sciences, Australian Catholic University



Professor James McLaren
Pro Vice-Chancellor (Research)
Office of the Deputy Vice-Chancellor (Research)
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



Jenna Bartyn
Research Officer (Jan-Nov)



Denise Brennan
Research Officer (Jan-Oct)



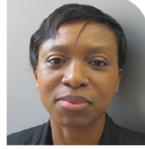
Heilok Cheng
Research Officer (Casual)



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



Simeon Dale
Clinical Research Fellow and Trials
Manager



Dr Oyebola Fasugba
Senior Research Officer (Part-time)



Julie Gawthorne
Clinical Research Fellow, Maridulu
Budyari Gumal Sydney Partnership
for Health, Education, Research and
Enterprise Implementation Science
Research, St Vincent's Hospital Sydney



Chinonye Maduka
Research Officer (Jan-Nov)



Dr Cintia Martinez-Garduno
Research Officer (Part-time) (Aug-Dec)



Benjamin McElduff
Research Officer / Statistician
(Part-time)



Dr Tanya Pritchard
Research Officer



Dr John Rihari-Thomas
Senior Project Manager



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



Researchers NRI Melbourne



Dr Kathleen Bagot
Research Officer (Casual)



Kelly Coughlan
Research Officer (Part-time)



Alysia Coventry
Research Officer (Part-time)

Administration



Tara Doyle
Personal Assistant to Director of NRI
(Part-time) (Jan-Mar)



Carmel Parker
Personal Assistant to the Director of NRI



Patty Zenonos
Institute Manager

Clinician Researchers

St Vincent's Hospital Network Sydney



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



Joyce Baye
Nurse Unit Manager, Palliative Care
 St Joseph's Hospital
 Improving patient safety by reducing hospital acquired urinary tract infections



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



Dominique Christian
Senior Physiotherapist
 St Vincent's Hospital Sydney
 AVERT-DOSE Trial



Dr Amanda Jane Currie
Nurse Practitioner
 St Vincent's Hospital Sydney
 Optimising scope of practice of the nursing workforce to increase access to care of people experiencing or at high risk of vulnerability



Rose Gordon
Clinical Nurse Specialist, St Joseph's Hospital
 Improving patient safety by reducing hospital acquired urinary tract infections



Sarah Kelly
Occupational Therapist, St Vincent's Hospital Sydney
 AVERT-DOSE Trial



Noah Mitchell
Physiotherapy Manager
 St Vincent's Hospital Sydney
 AVERT-DOSE Trial



Edel Murray
Manager, Clinical Governance and Assurance
 St Vincent's Health Australia
 The Clinical Registry Study



Kirsty Page
Clinical Nurse Consultant
 St Vincent's Hospital Sydney
 TEXAIS: Post-stroke hyperglycaemia - Treatment with Exenatide in Acute Ischaemic Stroke trial
 AVERT-DOSE 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



Meredith Rogers
Senior Occupational Therapist
 St Vincent's Hospital Sydney
 AVERT-DOSE Trial

St Vincent's Hospital Melbourne (SVHM)



John Forster
Psychiatric Consultation and Liaison Nurse
 St Vincent's Hospital Melbourne
 Development of a tool to identify mental health deterioration in generalist settings



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

SVHM Research Advisory Group Members



John Forster
Psychiatric Consultation and Liaison Nurse
 St Vincent's Hospital Melbourne
 Development of a tool to identify mental health deterioration in generalist settings



Katherine McBrearty
Practice Development Nurse, Projects, Education Projects and Research
 St Vincent's Hospital Melbourne



Jake McMahon
Associate Nurse Unit Manager, 6 West
 St Vincent's Hospital Melbourne



Virginia Walker
Education Coordinator, Education Projects and Research
 St Vincent's Hospital Melbourne



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

PhD Student



Brett Jones
Stroke Nurse Practitioner
 Canberra Hospital
 Brett Jones is the Stroke Nurse Practitioner for the Canberra Hospital, where he first started working in acute stroke care in 2004. Brett was also involved in setting up Canberra's newest stroke unit at Calvary Health Care and has been involved in an ACT Health project to improve access to hyperacute treatments across the territory. Brett's primary interests are hyperacute management of stroke, and education of healthcare professionals on stroke-related issues and research. His PhD is focused on the Code Stroke 2.0 project, which is examining the role of the acute stroke nurse during a code stroke call in the Emergency Department. His research has the potential to inform a new model of stroke nursing care.

NRI-ACU Research Internship



Dr Mahnaz Fanaian
Lecturer (Nursing), School of Nursing, Midwifery and Paramedicine NSW/ACT
 Australian Catholic University
 Dr Mahnaz Fanaian started with the NRI in August 2019 as an Early Career Researcher. The Australian Catholic University Early Career Researcher training programs support research active academics, one day a week, to come to the NRI for research experience and mentoring. Dr Fanaian has over 20 years' experience working as a Research Fellow and research coordinator in health research. At the NRI, Dr Fanaian worked on the Oral health care practices for stroke patients in acute care international survey and The Clinical Registry Study mentored by Professor Sandy Middleton.

NRI and SPHERE Implementation Internship

Julie Gawthorne

Clinical Nurse Consultant - Emergency Department,
St Vincent's Hospital Sydney

The NRI would like to thank St Vincent's Health Network Sydney (SVHNS), St Vincent's Health Australia and the National Health and Medical Research Council accredited Maridulu Budyari Gumal Sydney Partnership for Health, Education, Research and Enterprise (SPHERE) for jointly funding its first internship program. In a first for SVHNS, Julie Gawthorne was awarded the 18-month internship, which finished in December 2020. Julie, a Clinical Nurse Consultant in the Emergency Department at St Vincent's Hospital Sydney, brought 24 years of nursing experience and expertise to the role.

The internship, as the Clinical Research Fellow, SPHERE Implementation Science Research, focused on working with clinicians within SPHERE to identify and address evidence-practice gaps to improve healthcare. As part of her internship she undertook a project examining clinical registry participation at SPHERE hospitals. The project aimed to identify departments that are contributing data to clinical quality registries and explore how data are being used to drive local practice improvement. She currently has a manuscript under editorial review with a peer-reviewed journal for her research project, Use of Fascia Iliaca Blocks in elderly patients with a fractured neck of femur.

Julie was awarded the SVHNS International Year of the Nurse Award for Research in December 2020. The award was in acknowledgement of Julie's achievements in implementation science research during the internship. Julie will return to her clinical position in 2021 and is planning to continue developing a translational research program within the Emergency Department.



SVHM Clinician Researcher Profile

John Forster

Psychiatric Consultation and Liaison Nurse,
St Vincent's Hospital Melbourne

John Forster is a mental health nurse and psychotherapist who has worked in a variety of general and psychiatric health settings in his nursing career. He currently works in the Consultation Liaison Psychiatry Service at St Vincent's Hospital Melbourne (SVHM). John is now a member of the St Vincent's Hospital Melbourne Research Advisory Group (RAG) established in 2020. Unique to Melbourne, the RAG incorporates NRI staff and SVHM clinicians with an interest in research and building nurse-led research capacity. John is leading a project on screening for deteriorating mental health in the general hospital setting. The NRI Melbourne team have provided John with guidance in qualitative research methods.

John was the recipient of a St Vincent's Health Australia Inclusive Health Program grant in 2019, the aim of which was to establish a hospital-wide framework for detecting and responding to deterioration in the mental health of acute care patients. This project developed a Mental Health Observation Record Chart (MHORC) to assess and identify levels of distress, an escalation of care framework to inform a response to deterioration of mental health, and an education package and training course for staff. These were implemented on three wards, following which the MHORC's implementation was evaluated by using ward-based nursing focus groups.



NRI and Allied Health Partnership

Lauren Christie

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

Lauren Christie commenced in August 2019 as the new Senior Implementation Science Research Fellow in Allied Health at St Vincent's Health Network Sydney (SVHNS). Co-funded by the Australian Catholic University and SVHNS, her role focuses on increasing research capacity within frontline allied health disciplines to implement evidence into practice. Lauren is supported in this role by the Director of Allied Health, Margaret Lazar, and is also mentored by Professor Sandy Middleton.

Lauren has over 10 years of experience as an occupational therapist, working primarily in neurological rehabilitation, leading multidisciplinary clinical teams in brain injury and stroke rehabilitation in both Australia and the United Kingdom. She is currently in the final stages of her PhD candidature, investigating the implementation of constraint-induced movement therapy programs - an effective intervention for arm recovery after stroke and brain injury - into routine practice internationally.

In 2020, Lauren had three manuscripts accepted for publication and presented her work at the European Stroke Organisation and World Stroke Organisation Conference. She completed over 70 contact sessions with allied health clinicians to support them in developing their research ideas and projects, and coordinated monthly research education workshops for frontline clinicians in collaboration with St Vincent's Hospital Melbourne allied health partners. Lauren also worked in partnership with colleagues from Monash University and Alfred Health (Professor Natasha Lannin), Macquarie University and Concentric Rehabilitation (Dr Kate Scrivener) to develop a training program to support frontline clinicians in undertaking their first systematic review.



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. We would like to thank them for their contribution and ongoing support.

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

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

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

Merce Plana
Pla Director, Malaltia Vasculat 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 (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

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

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 (QASC) Europe Project

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

NRI Awards and Media

AWARDS

- **Professor Sandy Middleton** was honoured to receive the inaugural St Vincent's Health Network Sydney International Year of the Nurse Hall of Fame Award for her lifetime achievements in nurse-led stroke research, the findings of which have informed nursing and multidisciplinary stroke care nationally and internationally.
- **Professor Sandy Middleton** was part of a team of stroke researchers who received a certificate of achievement from the *Medical Journal of Australia* for a publication that was in the top 10% most downloaded in 2019. The publication, 'Maximising data value and avoiding data waste: a validation study in stroke research', reported the first linkage of data from an Australian national clinical quality disease registry with routinely collected data from several national and state government health datasets.
- **Professor Sandy Middleton**, with a research team led by Professor Kate Curtis, an internationally renowned emergency and trauma nurse clinician researcher, won the Health Research and Innovation category of the 2020 Illawarra Shoalhaven Local Health District Awards. The project, *Implementation of a Chest Injury Care Bundle Prevents Adverse Events Project*, is world-first research focused on widespread, sustainable improvements in patient safety and outcomes for patients with rib fractures, across public and private hospital settings.
- **Julie Gawthorne**, Clinical Research Fellow SPHERE Implementation Science Research, was awarded the St Vincent's Health Network Sydney International Year of the Nurse Award for Research. The award was in acknowledgement of Julie's achievements during her internship with the NRI.
- **Alysia Coventry**, NRI Research Officer, was awarded a prestigious Graduate Research Studentship for palliative care research from the Centre for Palliative Care (which is based at St Vincent's Hospital Melbourne and a Collaborative Centre of The University of Melbourne, Australia). Supervised by world-leading palliative care researcher Professor Peter Hudson, Alysia's research is focused on developing an evidence-based model of care for bereavement support for families of patients in the Intensive Care Unit and builds on her MPhil research published in the *Journal of Advanced Nursing* in May 2020. Alysia sees her doctoral studies as the first step in a program of research she hopes will lead to post-doctoral studies in this area of research. Further information can be found: <https://healthtimes.com.au/hub/critical-care/21/news/ht1/new-nurseled-research-to-improve-bereavement-care-in-icu/5382/>

Left to right: Professor Sandy Middleton, Julie Gawthorne and Professor Elizabeth McInnes



- **Professor Elizabeth McInnes** and her team from ACU and St Vincent's Hospital Sydney (SVHS), consisting of Dr Cintia Martinez-Garduno (NRI), Jane Rogers (Clinical Nurse Consultant, SVHS), Dr Peta Drury (ACU) and Rosemary Phillips (NRI), were runner up for the Best Original Research Article in the Coloplast Biatain Literary Awards for 2019 by the Editorial Board of Wound Practice and Research. The publication, first-authored by Dr Martinez-Garduno, is 'The Surgical Patients' Pressure Injury Incidence (SPPII) study: a cohort study of surgical patients and processes of care'. Incidence studies of pressure injuries are rare and logistically challenging and it was pleasing to see that SVHS had a very low-pressure injury rate among high-risk surgical patients.



Professor Sandy Middleton and Adjunct Professor Anna Thornton with Sandy's St Vincent's Health Network Sydney International Year of the Nurse Hall of Fame Award

GRANTS

- A \$1.35M National Health and Medical Research Council Investigator Grant was awarded to **Professor Sandy Middleton**. The grant, *Transforming acute hospital care to improve outcomes for stroke*, will build on Professor Middleton's current program of stroke research and examine new methods of implementation and upscale.
- **Professor Elizabeth McInnes**, a Chief Investigator on a team led by Griffith University, was awarded a five-year NHMRC Centre of Research Excellence \$2.5M grant. The grant will develop research and research capacity in improving the translation into practice of evidence-based wound care with a focus on pressure injuries, surgical wounds and intravascular devices.

MEDIA

- **Nursing Trailblazer** *Australian College of Nursing*. Looking back: Nursing Trailblazer Sandy Middleton FACN. 8 February 2020. Available at: <https://www.acn.edu.au/nurseclick/looking-back-nursing-trailblazer-sandy-middleton-facn>
- **St Vincent's Foundation supports nursing research** *St Vincent's Foundation - St Vincent's Cares*. The importance of nursing research, by Professor Elizabeth McInnes. Summer 2020. Available at: <https://www.stvfoundation.org.au/news/christmas-news-2020>
- **QASC Europe in Nursing Now** *Nursing Now*. Nurses lead pioneering programme to improve health outcomes for stroke patients. 15 January 2020. Available at: <https://www.nursingnow.org/nurses-lead-pioneering-programme-to-improve-health-outcomes-for-stroke-patients/>

NRI Grants Awarded

NEW GRANTS 2020

Total funds awarded 2020
\$5,175,253

NRI staff in bold

CATEGORY 1*

- 1 Chaboyer W, Gillespie BM, **McInnes E**, Rickard C, Scuffham P, Glasziou P, Princess IS, Ullman A, Thalib L, Chopra V. Centre of Research Excellence in wiser wound care, National Health and Medical Research Council. Total funds awarded: \$2,500,000. (Application ID: APP1196436)
- 2 **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. (Application ID: APP1196352)

CATEGORY 2†

- 3 McBrearty K, Jordan R, Murphy J, **Riddell K**, Walker V, Martin Jo-Ann, Jacob E, **McInnes E**. Understanding the short and longer-term impacts of a Registered Undergraduate Student of Nursing (RUSON) workforce. Research Endowment Fund Grant. Total funds awarded: \$39,450.
- 4 **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 2020/2021. Total funds awarded: \$118,058.
- 5 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 2020/2021. Total funds awarded: \$177,087.

CATEGORY 3‡

- 6 **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.
- 7 **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.
- 8 **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.
- 9 Watkins CL, Lightbody E, Schroeder D, Hackett M, 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 R, **Middleton S**, Cadilhac DA. IMPROVIS-ATION: Improving Stroke Care in India - Advancing the INSTRUCT. National Institute of Health Research Global Health Research Group. Total funds awarded: £493,256.70 (A\$893,827).

CONTINUING GRANTS 2020

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. Centre for Research Excellence in Paediatric Emergency Medicine (PEM). National Health and Medical Research Council. 2019: \$550,344.95; 2020: \$735,169.65; 2021: \$588,311.45; 2022: \$337,705.50; 2023: \$287,438.65. Total funds awarded: \$2,498,970.20. (Application ID: APP1171228)

CONTINUING GRANTS 2020

- 2** Bernhardt J, Donnan G, 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. 2018: \$753,168.15; 2019: \$1,081,331.05; 2020: \$1,087,555.45; 2021: \$1,068,584.40; 2022: \$368,924.50. Total funds awarded: \$4,359,563.55. (Application ID: APP1139712)
- 3** Bernhardt J, Nilsson M, Carey L, van Vliet P, Cadilhac DA, Parsons M, Bladin C, **Middleton S**, Levi C, Donnan GA. Centre of Research Excellence in stroke rehabilitation and brain recovery. National Health and Medical Research Council. 2014: \$631,079; 2015: \$667,228; 2016: \$549,930; 2017: \$351,723; 2018: \$300,574. Total funds awarded: \$2,500,534. (Project ID: APP1077898)
- 4** 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. 2017: \$432,459.60; 2018: \$416,844.70; 2019: \$416,844.70. Total funds awarded: \$1,266,149. (Project ID: APP1126070)
- 5** Cadilhac DA, Anderson C, Donnan G, Levi C, Thrift A, **Middleton S**, Lannin N, Faux S, Sundararajan V, Grimley R. STROKE123: A collaborative national effort to monitor, promote and improve the quality of stroke care in hospitals and patient outcomes. National Health and Medical Research Council Partnership Grant. 2012: \$319,644; 2013: \$264,678; 2014: \$305,619; 2015: \$310,059. Total funds awarded \$1.2M. Cash contribution: Monash University: \$40,000; National Stroke Foundation: \$360,000; Queensland Health: \$90,000. Total industry cash contribution: \$490,000. In kind contribution: \$1.066M. (Project ID: 1034415)
- 6** 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. 2018: \$228,343; 2019: \$735,923; 2020: \$105,002. Total funds awarded: \$1,069,268. (Project ID: APP1145859)
- 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 MRFF. 2020: \$230,290.80; 2021: \$347,215.80; 2022: \$320,223.30. Total funds awarded: \$897,729.90. (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*. Centre of Research Excellence in aphasia recovery and rehabilitation. National Health and Medical Research Council. 2018: \$688,146.50; 2019: \$846,482; 2020: \$684,174; 2021: \$149,439; 2022: \$127,551.20. Total funds awarded: \$2,495,792.70. (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. 2017: \$208,149; 2018: \$208,149; 2019: \$208,149; 2020: \$208,149. 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. 2017: \$282,482; 2018: \$138,037; 2019: \$307,421; 2020: \$148,037. Cash contribution: St Vincent's Health Australia: \$350,000. 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 2017. Total funds awarded: \$99,356.
- 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 2019/2020, NSW Ministry of Health. Total funds awarded: \$400,422.
- 14** Spratt N, Ada L, Nilsson M, **Middleton S**, Bernhardt J, Churilov L, Levi C, Pollack M, Faux SGG, Perry L, McCluskey A. Altering the Rehabilitation Environment to Improve Stroke Survivor Activity (AREISSA): A Phase II Trial. NSW Cardiovascular Research Network Research Development Project Grant. Jan 2014 to March 2016. Total funds awarded: \$254,633. (Project ID: APP2013000634)
- 15** Alexandrov AW, Alexandrov A, Metter EJ, Thomas F, Tsvigoulis G, **Middleton S**. Zero Degree head positioning in Acute ischaemic stroke (ZODIAC). National Institute of Health (USA). 2018: US\$500,612; 2019: US\$480,012; 2020: US\$480,012; 2021: US\$467,219; 2022: US\$434,506. Total funds awarded: US\$2,362,361 (A\$3,334,236).
- 16** Cadilhac DA, Hand P, Andrew NE, **Middleton S**. Reducing disability from stroke by improving access to best practice stroke care in Victoria. The Florey Institute of Neuroscience and Mental Health. Ian Potter Foundation. Total funds awarded: \$100,000.
- 17** Cadilhac DA, **Middleton S**, Grimley R, Pandian J, Nguyen TH, Vo TTC, Tran BQ, Watkins CL, 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 Programme Round 2. Grant funding: \$95,922; Partner contribution: Cash: \$41,193.03; In Kind: \$137,115.03. Total grant: \$260,518.93.
- 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. 2017: \$109,582; 2018: \$116,191; 2019: \$65,023. Total funds awarded: \$290,796.
- 19** Gawthorne J, **Middleton S**, **McInnes E**, Stevens J, Faux S, Welch S. Can emergency nurses safely and effectively insert ultrasound guided fascia iliaca blocks compared to medical practitioners in patients with a fractured neck of femur: A retrospective descriptive cohort study. St Vincent's Clinic Foundation Grant 2018. Total funds awarded: \$25,000.
- 20** Godecke E, Armstrong E, Bernhardt J, **Middleton S**, Rai T, Holland A, Cadilhac D, Hankey GJ, Whitworth A, Rose M, Ciccone N. Very Early Rehabilitation in SpEech (VERSE): An RCT of aphasia therapy after stroke. The Tavistock Trust for Aphasia; United Kingdom. Philanthropic funding; 2017. Total funds awarded: £75,000 (A\$122,000).
- 21** Levi C, Bhaskar S, McDougall A, Wenderoth J, Cordato D, Zagami A, Middleton P, **Middleton S**. Thrombolysis and Endovascular workFLOW Network (TEFLON) Trial. UNSW Neuroscience, Mental Health and Addictions and SPHERE Mindgardens CAG 2018. Total funds awarded: \$40,000.
- 22** **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. 2017: \$417,244; 2018: \$417,244; 2019: \$417,244. Total funds awarded: \$1,251,732.
- 23** **Middleton S**, Fasugba O, **McInnes E**. Improving patient safety by reducing hospital acquired Urinary Tract Infections. St Vincent's Clinic Foundation Multidisciplinary Patient Focused Grant. Total funds awarded: \$25,000.
- 24** Watkins CL, 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). 2018: £528,724; 2019: £743,874; 2020: £646,198. Total funds awarded: £1,918,796 (A\$3,154,663). (Project ID: 16/137/16)

* 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 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*. Epub ahead of print 3 November 2020. <https://doi.org/10.1212/WNL.00000000000011106>
- 2 Boland L, Brosseau L, Caspar S, Graham ID, Hutchinson AM, Kothari A, McNamara K, **McInnes E**, Angel M, Stacey D. Reporting health research translation and impact in the curriculum vitae: a survey. *Implementation Science Communications* 2020; 1:20. <https://doi.org/10.1186/s43058-020-00021-9>
- 3 Brunser A, Ouyang M, Arima H, Lavados P, Robinson T, Muñoz-Venturelli P, Olavarria V, Billot L, Hackett M, Song L, **Middleton S**, Pontes-Neto O, Lee TH, Watkins CL, Anderson CS. No benefit of flat head positioning in early moderate-severe acute ischemic stroke: HeadPoST study subgroup analysis. *Stroke and Vascular Neurology*. Epub ahead of print 25 June 2020. <http://dx.doi.org/10.1136/svn-2020-000387>
- 4 Cheung N, Campbell LV, **Middleton S**. Routine glucose assessment in the emergency department for detecting unrecognised diabetes: a cluster randomised trial. Letter to the Editor. *Medical Journal of Australia* 2020; 213 (2): 95-95.e1 [Letter] <https://doi.org/10.5694/mja2.50549>
- 5 **Christie LJ**, Egan C, Wyborn J, Simpson GK. Evaluating client experience of rehabilitation following acquired brain injury: a cross-sectional study. *Brain Injury*. Epub ahead of print 18 December 2020. doi:10.1080/02699052.2020.1867768
- 6 **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*. Epub ahead of print 8 December 2020. doi: 10.1108/JHOM-07-2020-0297
- 7 Coote S, Cadilhac DA, O'Brien E, **Middleton S** on behalf of the Acute Stroke Nurses Education Network (ASNEN) Steering Committee. Letter to the Editor regarding: Critical Considerations for Stroke Management During COVID-19 Pandemic in response to Inglis et al. *Heart Lung and Circulation* 2020; 29(9): 1263-1267. <https://doi.org/10.1016/j.hlc.2020.09.925>
- 8 **Coventry A**, Rosenberg J, Ford R, **McInnes E**. A qualitative meta-synthesis investigating the experiences of the patient's family when treatment is withdrawn in the intensive care unit. *Journal of Advanced Nursing* 2020; 76 (9): 2222-2234. <https://doi.org/10.1111/jan.14416>
- 9 **Fasugba O**, Mitchell BG, **McInnes E**, Koerner J, Cheng AC, Cheng H, **Middleton S**. Increased fluid intake for the prevention of urinary tract infection in adults and children in all settings: a systematic review. *Journal of Hospital Infection* 2020; 104 (1): 68-77. doi:10.1016/j.jhin.2019.08.016
- 10 Gillespie BM, Walker RM, Latimer SL, Thalib L, Whitty JA, **McInnes E**, Chaboyer WP. Repositioning for pressure injury prevention in adults. *Cochrane Database of Systematic Reviews* 2020, Issue 6. Art. No.: CD009958. DOI: 10.1002/14651858.CD009958.pub3
- 11 Gillespie BM, Walker R, **McInnes E**, Moore Z, Eskes A, O'Connor T, Harbeck E, White C, Scott I, Vermeulen H, Chaboyer W. Preoperative and postoperative recommendations to surgical wound care interventions: A systematic meta-review of Cochrane reviews. *International Journal of Nursing Studies* 2020; 102, 103486. <https://doi.org/10.1016/j.ijnurstu.2019.103486>

NRI PEER-REVIEWED PUBLICATIONS continued

- 12 Godecke E, Armstrong B, Rai T, Ciccone N, Rose M, **Middleton S**, Whitworth A, Holland A, Ellery F, Hankey G, Cadilhac DA, Bernhardt J. A Randomised Control Trial of intensive aphasia therapy after acute stroke: the Very Early Rehabilitation for SpEEch (VERSE) study. *International Journal of Stroke*. Epub ahead of print 6 October 2020. <https://doi.org/10.1177%2F1747493020961926>
- 13 Jaarsma T, Stromberg A, Dunbar S, Fitzsimon D, Lee C, **Middleton S**, Vellone E, Freedland K, Riegel B. Self-care research: Where are we now? Where are we going? *International Journal of Nursing Studies* 2020; 105: 1-8. <https://doi.org/10.1016/j.ijnurstu.2019.103402>
- 14 Levi C, Attia JA, D'Este C, Ryan AE, Henskens F, Kerr E, Parsons MW, Sanson-Fisher RW, Bladin C, Lindley RI, **Middleton S**, Paul CL. Cluster-randomized trial of thrombolysis implementation support in metropolitan and regional Australian stroke centres: Lessons for individual and systems behavior change. *Journal of the American Heart Association* 2020; 9: e012732. <https://doi.org/10.1161/JAHA.119.012732>
- 15 **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**. Process evaluation of an implementation trial to improve the triage, treatment and transfer of stroke patients in emergency departments (T3 trial): a qualitative study. *Implementation Science* 2020; 15(1): 99. <https://doi.org/10.1186/s13012-020-01057-0>
- 16 **McInnes E**, Harvey G, Hiller J, Philips R, Page T, Wiechula R. Factors affecting procurement of wound care products: A qualitative study of hospital managers and clinicians' views. *Australian Health Review* 2020. Epub ahead of print 8 October 2020. <https://doi.org/10.1071/AH19250>
- 17 **Middleton S**, Pfeilschifter W on behalf of the QASC Europe Steering Committee, the Angels Initiative, RES-Q, the European Stroke Organisation, and the QASC Europe Project Team. International translation of Fever, Sugar, Swallow Protocols: The Quality in Acute Stroke Care Europe Project. *International Journal of Stroke* 2020; 15(6): 591-594 [Leading Opinion]. <https://doi.org/10.1177%2F1747493020915130>
- 18 Muir R, Carlini J, Harbeck E, Gillespie B, Tuffaha H, Walker R, **McInnes E**, Latimer S, Lin F, Percy J, Chaboyer W. Patient Involvement in Surgical Wound Care Research: A Scoping Review. *International Wound Journal* 2020; 17: 1462-1482. <https://doi.org/10.1111/iwj.13395>
- 19 Ouyang M, Billot L, Song L, Wang X, Roffe C, Arima H, Lavados P, Hackett M, Olavarria V, Muñoz-Venturelli P, **Middleton S**, Pontes-Neto O, Lee T, Watkins CL, Robinson T, Anderson CS. Prognostic significance of early urinary catheterization after acute stroke: Secondary analyses of the international HeadPoST trial. *International Journal of Stroke* 2020. Epub ahead of print 19 February 2020. <https://doi.org/10.1177/1747493020908140>
- 20 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 CL, Robinson T, Anderson CS. Low blood pressure and adverse outcomes in acute stroke: HeadPoST study explanations. *Journal of Hypertension* 2020. Epub ahead of print 8 September 2020. doi: 10.1097/HJH.0000000000002649
- 21 Ouyang M, Zhang Y, Wang X, Song L, Billot L, Robinson T, Lavados PM, Arima H, Hackett ML, Olavarria VV, Muñoz-Venturelli P, **Middleton S**, Watkins CL, Pontes-Neto OM, Lee T, Brunser AM, Anderson CS. Quantifying regional variations in components of acute stroke unit (ASU) care in the international HeadPoST study. *Journal of the Neurological Sciences* 2020; 419, 117187. Epub ahead of print 14 October 2020. <https://doi.org/10.1016/j.jns.2020.117187>
- 22 Rogers J, **Middleton S**, Wilson P, Johnstone S. Predicting functional outcomes after stroke: An observational study of acute single-channel EEG. *Topics in Stroke Rehabilitation* 2020; 27(3): 161-172. <https://doi.org/10.1080/10749357.2019.1673576>
- 23 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* 2020; 1-15. <https://doi.org/10.1016/j.outlook.2020.08.009>
- 24 Shi C, Dumville JC, Cullum N, Rhodes S, **McInnes E**. Alternating pressure (active) air surfaces for preventing pressure ulcers. *Cochrane Database of Systematic Reviews* 2020, Issue 5. Art. No.: CD013620. <https://doi.org/10.1002/14651858.CD013620>

- 25 Shi C, Dumville JC, Cullum N, Rhodes S, **McInnes E**. Beds and mattresses for treating pressure ulcers. *Cochrane Database of Systematic Reviews* 2020, Issue 5. Art. No.: CD013624. <https://doi.org/10.1002/14651858.CD013624>
- 26 Shi C, Dumville JC, Cullum N, Rhodes S, **McInnes E**. Alternative reactive support surfaces (non-foam or air-filled) for preventing pressure ulcers. *Cochrane Database of Systematic Reviews* 2020, Issue 5. Art. No.: CD013623. <https://doi.org/10.1002/14651858.CD013623>
- 27 Shi C, Dumville JC, Cullum N, Rhodes S, **McInnes E**. Reactive air surfaces for preventing pressure ulcers. *Cochrane Database of Systematic Reviews* 2020, Issue 5. Art. No.: CD013622. <https://doi.org/10.1002/14651858.CD013622>
- 28 Shi C, Dumville JC, Cullum N, Rhodes S, **McInnes E**. Foam surfaces for preventing pressure ulcers. *Cochrane Database of Systematic Reviews* 2020, Issue 5. Art. No.: CD013621. <https://doi.org/10.1002/14651858.CD013621>
- 29 Shi C, Dumville JC, Cullum N, Rhodes S, **McInnes E**. Beds, overlays and mattresses for treating pressure ulcers: an overview of Cochrane reviews and network meta-analysis. *Cochrane Database of Systematic Reviews* 2020, Issue 10. Art. No.: CD013761. <https://doi.org/10.1002/14651858.CD013761>
- 30 Walker R, Gillespie B, **McInnes E**, Moore Z, Eskes A, Patton D, Harbeck E, White C, Scott I, Chaboyer W. Prevention and treatment of pressure injuries: A meta-synthesis of Cochrane Reviews. *Journal of Tissue Viability* 2020; 29(4): 227-243. <https://doi.org/10.1016/j.jtv.2020.05.004>
- 31 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* 2020. Epub ahead of print 10 November 2020. <https://doi.org/10.5694/mja2.50849>



NRI Projects

NRI researchers collaborated on **32** research projects in 2020. Eight were led by the NRI researchers^S and we collaborated on remaining projects as co-investigators.[^] Sixteen of the projects were collaborations with our health partners.

Project by National Safety and Quality Health Service Standards	Funding source	St Vincent's Health Australia campuses
Standard 1: Clinical governance		
1 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 Hospital Sydney
2 The Clinical Registry Study - St Vincent's Hospital Sydney^S	Sydney Partnership for Health, Education, Research and Enterprise (SPHERE); St Vincent's Health Network Sydney; St Vincent's Health Australia	St Vincent's Hospital Sydney
3 STROKE123: A collaborative national effort to monitor, promote and improve the quality of stroke care in hospitals and patient outcomes[^]	National Health and Medical Research Council	N/A
Standard 2: Partnering with consumers		
4 Centre for 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
5 Peritoneal dialysis patients' health and wellbeing and satisfaction with care^S	In-kind - NRI	St Vincent's Hospital Sydney
6 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		
7 Improving patient safety by reducing hospital acquired Urinary Tract Infections^S	St Vincent's Clinic Foundation Grant	St Joseph's Hospital
Standard 4: Medication safety		
8 Use of fascia iliaca blocks in elderly patients with a fractured neck of femur^S	St Vincent's Clinic Foundation Grant	St Vincent's Hospital Sydney

NRI PROJECTS continued

Standard 5: Comprehensive care			
9	AREISSA: Altering the Rehabilitation Environment to Improve Stroke Survivor Activity [^]	NSW Cardiovascular Research Network Research Development Project Grant	N/A
10	Centre for Research Excellence in stroke rehabilitation and brain recovery [^]	National Health and Medical Research Council	N/A
11	Centre for Research Excellence in aphasia recovery and rehabilitation [^]	National Health and Medical Research Council	N/A
12	Code stroke 2.0 [§]	PhD student	N/A
13	Improving arm function after stroke using task specific training [^]	National Health and Medical Research Council	N/A
14	IMPROVISE: National Institute for Health Research - Global Health Research Group on IMPROVing Stroke carE in India [^]	National Institute for Health Research, UK	N/A
15	Oral health care practices for stroke patients in acute care - international surveys [§]	Internal funding - Australian Catholic University	St Vincent's Hospital Sydney St Vincent's Private Hospital Sydney St Vincent's Hospital Melbourne
16	Quality in Acute Stroke Care (QASC) Europe Project [§]	European Stroke Organisation	N/A
17	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
18	STELAR Project: Reducing disability from stroke by improving access to best practice stroke care in Victoria [^]	Ian Potter Foundation	N/A
19	TEFLON: Thrombolysis and Endovascular WorkFLOW Network Trial [^]	University of New South Wales Neuroscience, Mental Health and Addictions; Sydney Partnership for Health, Education, Research and Enterprise (SPHERE) Mindgardens	N/A
20	TEXAIS: Post-stroke hyperglycaemia - Treatment with EXenatide in Acute Ischaemic Stroke trial [^]	National Health and Medical Research Council	St Vincent's Hospital Sydney St Vincent's Hospital Melbourne
21	VERSE: Very Early Rehabilitation in SpEech - a randomised controlled trial of aphasia therapy after stroke [^]	National Health and Medical Research Council	N/A
22	ZODIAC: ZerO Degree head positioning In Acute ischemiC stroke [^]	National Institute of Health, USA	N/A

NRI PROJECTS continued

Standard 5: Comprehensive care continued			
23	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
24	Translation of best practice osteoporosis refracture prevention: Stopping fragility fractures to keep Australians out of hospital [^]	Medical Research Future Fund	St Vincent's Hospital Sydney
25	Evaluation of patient experience of Symptom and Urgent Review Clinic model of care [^]	Victoria Health	St Vincent's Hospital Melbourne
Standard 6: Communicating for safety			
26	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 Hospital Sydney St Joseph's Hospital St Vincent's Hospital Melbourne
27	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			
28	ACCELERATE Trial: Assessment and Communication Excellence for sAfe paTient outcomEs [§]	NSW Nursing and Midwifery Strategy Reserve Funding; Nurses Board Legacy Limited Research Fund	St Vincent's Hospital Sydney St Vincent's Hospital Melbourne
29	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
30	Development of a tool to identify mental health deterioration in generalist settings [^]	Nil	St Vincent's Hospital Melbourne
Other			
31	i-Gen project [^]	In-kind	Mercy Health Melbourne
32	Optimising scope of practice of the nursing workforce to increase access to care of people experiencing or at high risk of vulnerability [^]	St Vincent's Health Australia Inclusive Health Program	St Vincent's Hospital Sydney

NRI Seminars, Workshops and Symposium

In 2020, the NRI's seminar program was delivered online with a total of **17** seminars and over **300** attendees. The NRI in Sydney and Melbourne partnered with the Allied Health Research Units at their respective St Vincent's Hospital campuses to offer a diverse range of seminars delivered by clinicians, academics and researchers. Further details of the seminars can be found on our [website](#).

RESEARCH EDUCATION WORKSHOPS

The Allied Health Research Unit at St Vincent's Hospital Sydney and the NRI organised a series of Research Skills Education Workshops. Ten workshops were held in 2020, with over **200** attendees. Topics included *Tips and tricks for successful writing*, *Identifying an evidence practice gap and designing your research question*, *Conducting a literature review* and *Building clinician-academic partnerships for research impact - virtual panel discussion with ACU academics*.

ALLIED HEALTH & NURSING RESEARCH SYMPOSIUM

As part of the Sydney St Vincent's Campus Research Week, held from 14 to 18 September, the NRI hosted the Allied Health & Nursing Research Symposium to showcase allied health and nursing research from Sydney and Melbourne St Vincent's Health Australia campuses. The Symposium included presentations by four NRI staff as follows:

- *A qualitative meta-synthesis investigating the experiences of the patient's family when treatment is withdrawn in the intensive care unit* presented by Alysia Coventry, Research Officer
- *Oral care practices in stroke: A survey in two countries* presented by Simeon Dale, Clinical Research Fellow
- *Clinical registry participation in hospitals and its impact on research* presented by Julie Gawthorne, Clinical Research Fellow - SPHERE Implementation Science, St Vincent's Health Network Sydney
- *A cross-sectional survey of clinical registry participation, data, resources and reporting in Australian hospitals. Is it influencing quality improvement activities?* presented by Dr Oyebola Fasugba, Research Officer

The Symposium was co-chaired by Lauren Christie, Senior Implementation Science Research Fellow - Allied Health, St Vincent's Health Network Sydney, and Julie Gawthorne, Clinical Research Fellow - SPHERE Implementation Science, St Vincent's Health Network Sydney. More than **200** people attended.

Conferences National and International

Presenters underlined, NRI staff in bold

International Stroke Conference, Los Angeles, USA: 19-21 February 2020
<u>Middleton S.</u> <i>Interventions for low resource settings.</i> [Oral Presentation]
<u>Middleton S.</u> Moderator for session: <i>Use of big data to improve risk factors, care and outcomes.</i> [Oral Presentation]
Jones B, <u>Dale S</u> , <u>McInnes E</u> , <u>Fasugba O</u> , Burrows C, John M, Doncillo M, Wright S, Lueck C, D'Este C, <u>McElduff B</u> , <u>Middleton S</u> . <i>Code stroke improves access to nurse led evidence-based stroke interventions: subgroup analysis of the Code Stroke 2.0 feasibility study.</i> [Oral Poster Presentation]
European Stroke Organisation / World Stroke Organisation Conference - Virtual: 7-9 November 2020
Bangee M, <u>Martinez-Garduno C</u> , <u>Lightbody E</u> , Brady MC, Cadilhac DA, <u>Dale S</u> , Hurley M, <u>McInnes E</u> , <u>Middleton S</u> , Patel T, Watkins CL. <i>Oral care practices after stroke: a survey of two regions.</i> [Poster Presentation]
Hallil E, Andonova V, Hristova M, Katsarova P, <u>Dale S</u> , D'Este C, <u>McElduff B</u> , <u>Coughlan K</u> , Rijksen M, <u>McInnes E</u> , <u>Middleton S</u> on behalf of the QASC Europe Steering and Implementation Committees. <i>Implementation of Fever, Sugar, Swallow (FeSS) Protocols: Results from the Quality in Acute Stroke Care (QASC) Europe Project - Multifunctional Hospital for Active Treatment Sveti Panteleimon - Bulgaria.</i> [Poster Presentation]
Jones B, <u>Dale S</u> , <u>McInnes E</u> , <u>Fasugba O</u> , Burrows C, Manju J, Doncillo M, Wright S, Lueck C, D'Este C, <u>McElduff B</u> , <u>Middleton S</u> . <i>Code stroke 2.0: does an expanded stroke nursing role in emergency department improve stroke unit care?</i> [Oral Presentation]
Koláčná T, Tomek A, <u>Dale S</u> , D'Este C, <u>McElduff B</u> , <u>Coughlan K</u> , Rijksen F, <u>McInnes E</u> , <u>Middleton S</u> on behalf of the QASC Europe Steering and Implementation Committees. <i>Implementation of Fever, Sugar, Swallow (FeSS) Protocols: Results from the Quality in Acute Stroke Care (QASC) Europe Project - Faculty Hospital Motol - Czech Republic.</i> [Poster Presentation]
<u>Middleton S</u> , <u>Dale S</u> , <u>McElduff B</u> , <u>Coughlan K</u> , Rijksen M, <u>McInnes E</u> , Fischer T, Van der Merwe J, Grecu A, Cadilhac DA, D'Este C, Levi C, Grimshaw JM, Cheung NW, Pfeilschifter W. On behalf of the QASC Europe Steering and Implementation Committees. <i>How well are fever, hyperglycaemia and swallowing managed post-stroke across Europe? Baseline results from the Quality in Acute Stroke Care (QASC) Europe Project.</i> [Oral Poster Presentation]
<u>Sanjuan E</u> , Santana KE, Pancordo O, Sala V, Calleja L, Gutierrez T, Salvat N, <u>Dale S</u> , D'Este C, <u>McElduff B</u> , <u>Coughlan K</u> , Rijksen M, <u>McInnes E</u> , <u>Middleton S</u> on behalf of the QASC Europe Steering and Implementation Committees. <i>Implementation of Fever, Sugar, Swallow (FeSS) Protocols: Results from the Quality in Acute Stroke Care (QASC) Europe Project - Vall Hebron Hospital, Barcelona - Spain.</i> [Poster Presentation]
<u>Salselas S</u> , Poço J, Ledesma N, Linhare R, <u>Dale S</u> , D'Este C, <u>McElduff B</u> , <u>Coughlan K</u> , Rijksen M, <u>McInnes E</u> , <u>Middleton S</u> on behalf of the Quality in Acute Stroke Care Europe Steering and Implementation Committees. <i>Implementation of Fever, Sugar, Swallow (FeSS) Protocols: Results from the Quality in Acute Stroke Care (QASC) Europe Project - ULSNE Macedo de Cavaleiros Hospital - Portugal.</i> [Poster Presentation]
Australasian Neuroscience Nurses Association Conference - Virtual: 13 November 2020
<u>Dale S</u> , Bangee M, <u>Martinez-Garduno C</u> , <u>Lightbody E</u> , Brady MC, Cadilhac DA, Hurley M, <u>McInnes E</u> , Patel T, Watkins CL, <u>Middleton S</u> . The state of oral care practices after stroke: A two region survey. [Oral Presentation]
6th European Stroke Organisation Conference - World Stroke Organisation. Early Careers Investigators Trials and Cohorts Virtual Workshop: 4-5 December 2020
<u>Middleton S</u> . Working across multiple centres or countries. [Oral Presentation]

Lectures and Workshops

National and International

Presenters underlined, NRI staff in bold

NIHR GHRG Collaborators meeting, Delhi, India: 2 February 2020
<u>Dale S.</u> <i>QASC Europe: Lessons learnt from initial 35 hospitals.</i>
University of Notre Dame, Sydney: 9 September 2020
<u>Dale S.</u> <i>Translating Evidence into Practice.</i>
Australian Health Research Alliance (AHRA) Working Group, Virtual: 30 September 2020
<u>Middleton S.</u> <i>Strategies for effective integration of clinical practice guidelines and clinical registry data to inform health service delivery: A systematic review.</i>
National Stroke Data And Quality Improvement Workshop, Virtual: 21 October 2020
<u>Middleton S.</u> <i>Update on the Australian Stroke Clinical Registry (AuSCR).</i>
Australian Catholic University, School of Nursing Midwifery and Paramedicine presentation, Virtual: 23 October 2020
<u>Coventry A.</u> <i>End-of-life care in the intensive care unit: A meta-synthesis of qualitative studies investigating the experiences and perceptions of the patient's family when treatment is withdrawn.</i>
Buckingham New University, Virtual: 5 November 2020
<u>Dale S.</u> <i>Getting Research into Practice, Quality in Acute Stroke Care Program.</i>
CRE in Aphasia Recovery and Rehabilitation Seminar, Virtual: 12 November 2020
<u>Middleton S.</u> <i>Lessons learnt in implementation trials and how to improve implementation of high-level evidence in health care settings.</i>
Australian Catholic University, School of Nursing Midwifery and Paramedicine presentation, Virtual: 4 December 2020
<u>Middleton S.</u> , <u>McInnes E.</u> , <u>Dale S.</u> <i>Stroke Research Program.</i>

Presentations

St Vincent's Hospital Sydney and St Vincent's Hospital Melbourne

Presenters underlined, NRI staff in bold

St Vincent's Hospital Sydney Presentations	St Vincent's Hospital Melbourne Presentations
<u>Whittam S.</u> , <u>Rihari-Thomas J.</u> <i>Introduction to nursing research - Presentation to the Heart and Lung Transplant Co-ordinators at St Vincent's Hospital Sydney - 17 January 2020</i>	<u>McInnes E.</u> <i>Why nursing-led research is important for clinical practice - St George's Health Service, Melbourne - 24 February 2020</i>
<u>Middleton S.</u> , <u>Gawthorne J.</u> <i>SPHERE Clinical Registry Study at St Vincent's Hospital Sydney - Nurse Leadership Meeting - 11 August 2020</i>	<u>McInnes E.</u> <i>Lessons from a multi-centre trial: (T3 Trial): Changing stroke management practice in the Emergency Department - NRI, St Vincent's Hospital Melbourne Research Seminar - 2 March 2020</i>
<u>Middleton S.</u> , <u>Gawthorne J.</u> <i>SPHERE Clinical Registry Study at St Vincent's Hospital Sydney - Heads of Department Meeting - 11 August 2020</i>	
<u>Middleton S.</u> , <u>Gawthorne J.</u> <i>SPHERE Clinical Registry Study at St Vincent's Hospital Sydney - Clinical Council Meeting - 12 August 2020</i>	

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