



Nursing Research Institute



**ANNUAL
REPORT
2018**



Nursing Research Institute

The Nursing Research Institute (NRI) is a collaboration between Australian Catholic University (ACU) and St Vincent's Health Australia Sydney (SVHAS). The NRI is based at St Vincent's Hospital Sydney. Since 2009 the NRI has conducted multidisciplinary outcomes-focused healthcare research of high clinical relevance.

OUR VISION

To lead a world-class centre in nursing health services research with our industry partners to improve the safety and quality of patient care and health service delivery.

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 attractive to the best researchers and research students.

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Message from the Directors

The Nursing Research Institute (NRI) had an industrious year working on 29 projects and receiving six new grants totalling over \$10 million. In 2018, the NRI research team consisted of 14 core staff located across New South Wales, the Australian Capital Territory, Queensland and Victoria. NRI researchers were first or co-authors on 21 publications in high-impact journals and their work was presented at 21 national and international conferences, workshops and symposiums. These outputs reflect the continuing high quality and national and international significance of the NRI's research program.

The Director, supported by the Deputy Director, was invited to lead the Implementation Science component of the Implementation Science and Knowledge Translation platform of the newly formed collaborative Sydney Partnership for Health, Education, Research and Enterprise (SPHERE). SPHERE is one of nine Advanced Health Research and Translation Centres, accredited by the National Health and Medical Research Council, which bring together researchers, healthcare providers, education and training to improve the health and well-being of patients and the populations they serve. The Implementation Science component aims to increase the uptake of new knowledge, using evidence-based methods, to improve healthcare practice. This exciting and innovative initiative involves 14 clinical and academic partners, including the St Vincent's Hospital Sydney, to help co-design and implement strategies to change practice according to evidence-based guidelines.

We were fortunate to host an implementation science masterclass by esteemed scientist Professor Jeremy Grimshaw, and honoured with visits from scholars from ACU partner universities, Loyola University, USA, and the Hunan University of Traditional and Chinese Medicine, China. We were also delighted to host and mentor two exceptional undergraduate nurse scholars from the University of Miami, USA, as featured in this report.

Lastly, we would like to highlight the continued and outstanding support from our clinical partners. Without this we would not be able to conduct clinically relevant and innovative research. In recognition of their contribution, we congratulate the Directors of Nursing at St Vincent's Health Network Sydney, St Vincent's Private Hospital Sydney and Mater Hospital North Sydney, who were awarded honorary appointments by the ACU as Adjunct Professors. The title acknowledges their leadership in nursing and their contribution to the productive relationship with ACU for promoting and supporting NRI research initiatives.

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 productive partnerships.

Professor Sandy Middleton
Director

Professor Elizabeth McInnes
Deputy Director



NRI Partnerships and Governance

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

ST VINCENT'S HEALTH AUSTRALIA SYDNEY

NRI Steering and Management Committees



Adjunct Professor Anna Thornton
(2018 Chair, Management Committee)
Director of Nursing (Apr–present)
St Vincent's Health Network Sydney



Ms Kirsty McLeod
Acting Director of Nursing (Jan–March)
St Vincent's Health Network Sydney



Adjunct Professor Margaret Kenny
Director of Clinical Services (Feb–present)
St Vincent's Private Hospital Sydney



Adjunct Professor Jose Aguilera OAM
Director of Nursing and Clinical Services
(Jan–Feb)
St Vincent's Private Hospital Sydney

NRI Steering Committee only



Adjunct Professor Anthony Schembri
Chief Executive Officer
St Vincent's Health Network Sydney

NRI Management Committee only



Adjunct Professor John Geoghegan
Director of Nursing and Operations
St Joseph's Hospital Sydney



Adjunct Professor Alexandra Joyner
Director of Nursing and Clinical Services
Mater Hospital North Sydney

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 Michelle Campbell
(2018 Chair, Steering Committee)
Executive Dean
Faculty of Health Sciences



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

NRI Management Committee



Associate Professor Amanda Johnson
Head of School
School of Nursing, Midwifery and Paramedicine
(NSW/ACT)



Professor Meg Stuart
National Head (July–Dec)
School of Nursing, Midwifery and Paramedicine



Professor Patrick Crookes
National Head (Jan–June)
School of Nursing, Midwifery and Paramedicine

NRI Staff Steering and Management Committees



Professor Sandy Middleton
Director
Nursing Research Institute



Professor Elizabeth McInnes
Deputy Director
Nursing Research Institute



Mrs Joylynn Israel
Research Officer and Personal Assistant
to the Director of NRI (Part-time)
Nursing Research Institute



Mrs Carmel Parker
Personal Assistant to the Director of NRI
(Part-time) (April–present)
Nursing Research Institute



Mrs Tara Doyle
Personal Assistant to the Director of NRI
(Part-time) (Jan–Mar)
Nursing Research Institute



Ms Patty Zenonos
Executive Officer and Project Manager
Nursing Research Institute



NRI Staff

DIRECTOR



Professor Sandy Middleton

DEPUTY DIRECTOR



Professor Elizabeth McInnes

RESEARCHERS



Ms Heilok Cheng

Research Assistant

Cochrane Systematic Review: Interventions for uptake of evidence-based recommendations in acute stroke settings

Trial of Exenatide in Acute Ischaemic Stroke (TEXAIS)



Mrs Kelly Coughlan

Research Assistant

Quality in Acute Stroke Care (QASC) Europe Project

Trial of Exenatide in Acute Ischaemic Stroke (TEXAIS)

QASC Stroke Survivorship Project

Triage, Treatment and Transfer of patients with stroke in Emergency Departments (T³ Trial)



Ms Simeon Dale

Clinical Research Fellow and Trial Manager

Quality in Acute Stroke Care (QASC)

Europe Project

Trial of Exenatide in Acute Ischaemic Stroke (TEXAIS)

Code Stroke 2.0 Pilot Study

Triage, Treatment and Transfer of patients with stroke in Emergency Departments (T³ Trial)



Dr Oyebola Fasugba

Research Officer

All projects



Mrs Joylynn Israel

Research Officer (Part-time)

All projects



Ms Kelly Jones

Research Assistant (Casual)

Trial of Exenatide in Acute Ischaemic Stroke (TEXAIS)



Dr Cintia Martinez-Garduno

Research Officer (Part-time)

Surgical Patients Pressure Injury Incidence (SPPII) study

Code Stroke 2.0 Pilot Study

Other projects



Mr Benjamin McElduff

Research Officer/Statistician

Quality in Acute Stroke Care (QASC) Europe Project

Triage, Treatment and Transfer of patients with stroke in Emergency Departments (T³ Trial)



Dr John Rihari-Thomas

Senior Project Manager

Transforming nursing assessment in acute hospitals:

A cluster randomised controlled trial of an Evidence-based CORE assessment protocol

(The ENCORE Trial)



Dr Verena Schadewaldt

Research Fellow

Triage, Treatment and Transfer of patients with stroke in Emergency Departments (T³ Trial)

CLINICIAN RESEARCHERS



Ms Sarah Baldwin

Registered Nurse, St Vincent's Hospital Sydney
Use of Fascia Iliaca Blocks in elderly patients with a fractured neck of femur



Ms Justine Branch

Registered Nurse, St Vincent's Hospital Sydney
Use of Fascia Iliaca Blocks in elderly patients with a fractured neck of femur



Mrs Julie Gawthorne

Emergency Department Clinical Nurse Consultant, St Vincent's Hospital Sydney
Use of Fascia Iliaca Blocks in elderly patients with a fractured neck of femur



Ms Rachael McKinnon

Clinical Nurse Educator,
St Vincent's Hospital Sydney
Trial of Exenatide in Acute Ischaemic Stroke (TEXAIS)



Ms Kirsty Page

Clinical Nurse Consultant,
St Vincent's Hospital Sydney
Trial of Exenatide in Acute Ischaemic Stroke (TEXAIS)

ADMINISTRATION



Mrs Joylynn Israel

Research Officer and Personal Assistant to Director of NRI (Part-time)



Mrs Tara Doyle

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



Mrs Carmel Parker

Personal Assistant to the Director of NRI (Part-time) (Apr–present)



Ms Patty Zenonos

Executive Officer and Program Manager



Research Projects

The NRI was involved in 29 research projects in 2018 as shown below. *Projects that involved both the NRI and St Vincent's Health Australia Sydney are indicated in italics.*

NRI PROJECTS LISTED BY NATIONAL SAFETY AND QUALITY HEALTH SERVICE STANDARDS
Standard 1: Clinical Governance Standard
1. <i>AVERT-DOSE (Determining Optimal early rehabilitation after StrokeE): A multi-arm covariate-adjusted, response-adaptive randomised controlled trial</i>
2. STROKE123: A national collaborative project to monitor, promote, and improve the quality of stroke care in hospitals and patient outcomes
3. Code Stroke 2.0 Pilot Study
4. <i>Implementing the Osteoporosis Re-Fracture Prevention Model of Care: A hybrid type 3 non-randomised stepped-wedge effectiveness-implementation trial</i>
5. <i>Qualitative study of purchasing and disinvestment processes in acute care hospitals</i>
Standard 2: Partnering with Consumers Standard
6. <i>HosQuit: Brief smoking cessation program in acute care</i>
Standard 4: Medication Safety Standard
7. <i>Use of Fascia Iliaca Blocks in elderly patients with a fractured neck of femur</i>
Standard 5: Comprehensive Care Standard
8. Cochrane review: Interventions for uptake of evidence-based recommendations in acute stroke settings
9. Cochrane review: Screening for aspiration risk associated with dysphagia in acute stroke
10. Cochrane review: Repositioning for pressure injury prevention in adults – update
11. Altering the Rehabilitation Environment to Improve Stroke Survivor Activity (AREISSA)
12. An evidence-based approach to improving outcomes and reducing hospital-acquired complications in patients with rib fractures: Chest Injury Pathway (ChIP)
13. International variation in patient thrombolysis selection criteria
14. Centre for Research Excellence for Stroke Rehabilitation and Brain Recovery
15. Centre for Research Excellence in Aphasia Recovery and Rehabilitation
16. National Institute for Health Research: Global Health Research Programme – Global stroke research group in India
17. Oral health care practices for stroke patients in acute care: An international survey
18. <i>Trial of Exenatide in Acute Ischaemic Stroke (TEXAIS)</i>
19. Reducing disability from stroke by improving access to best practice stroke care in Victoria (STELAR)
20. <i>Surgical Patients Pressure Injury Incidence (SPPII) study</i>
21. <i>Transforming nursing assessment in acute hospitals: A cluster randomised controlled trial of an Evidence-based CORE assessment protocol (The ENCORE Trial)</i>
22. Triage, Treatment and Transfer of patients with stroke in Emergency Departments (T ³ Trial)
23. Improving arm function after stroke using task specific training
24. Very Early Rehabilitation in SpEech (VERSE): Development of an Australian randomised controlled trial of aphasia therapy after stroke
25. Quality in Acute Stroke Care (QASC) Europe Project
26. <i>DecubICUs pressure ulcers in intensive care units: The global point-prevalence study</i>
27. Cochrane review: The effectiveness of support surfaces in treating pressure injury
28. Thrombolysis and Endovascular Workflow Network (TEFLON) Trial
Standard 6: Communicating for Safety Standard
29. <i>Creating a culture of safety and respect: A controlled, mixed methods study of effectiveness of a behavioural accountability intervention to reduce unprofessional behaviours (ETHOS)</i>

Highlights of 2018

AWARDS AND HONOURS



ACU Honorary Adjunct Professors

Congratulations to NRI Management and Steering committee members Ms Anna Thornton, Director of Nursing at St Vincent's Health Network Sydney, Ms Margaret Kenny, Director of Nursing and Clinical Services at St Vincent's Private Hospital Sydney and Mrs Alexandra Joyner, Director of Nursing and Clinical Services at Mater Hospital North Sydney, who were awarded honorary appointments as an Adjunct Professor with the Australian Catholic University. The title acknowledges their leadership in nursing and their contribution to the ongoing strong collaboration with ACU for promoting and supporting NRI research.



St Vincent's Clinic Medal

Professor Sandy Middleton was awarded the St Vincent's Clinic Medal at the St Vincent's Board Dinner on 21 November. The award was in recognition of Professor Middleton's outstanding contribution to mentorship and research. Professor Middleton was a member of the St Vincent's Clinic Board of Directors from 2011 to 2017. The Clinic's research foundation, St Vincent's Clinic Foundation, has supported a number of the NRI's evidence-based research projects, including the internationally renowned 'Quality in Acute Stroke Care (QASC) trial' and the current 'Use of Fascia Iliaca Blocks in elderly patients with a fractured neck of femur'.



QASC Europe Angels Initiative EFPIA Service Delivery Award

The Quality in Acute Stroke Care Europe Angels Initiative won the 2018 Service Delivery Award from the European Federation of Pharmaceutical Industries and Associations (EFPIA). The EFPIA held its annual health collaborative awards on 22 November to recognise collaborative projects that have demonstrated benefits for patients across Europe. More than 80 European projects were considered for awards in 2018.

The Angels Initiative, launched by Boehringer Ingelheim, in partnership with the European Stroke Organisation, the World Stroke Organization and the Stroke Alliance for Europe, aims to improve acute stroke care in more than 300 hospitals in 12 countries across Europe. The Angels' mission is to increase the number of patients treated in stroke-ready hospitals. The NRI has partnered with the Angels in the QASC Europe project to assist in implementing the Fever, Sugar, Swallow clinical protocols in stroke units in these hospitals and in leading the evaluation stage, which aims to optimise the quality of treatment in all existing stroke centres.

Highlights of 2018



NHMRC Health Translation Advisory Committee

Professor Sandy Middleton has accepted a three-year ministerial appointment (2019–2021) as a member of the National Health and Medical Research Council (NHMRC) Health Translation Advisory Committee (HTAC). This follows on from her three-year ministerial appointment on the NHMRC Research Committee. The role of HTAC is to provide advice to the NHMRC Council and CEO on strategies to strengthen translational research and how to promote effective translation of research into practice and policy.

VISITING SCHOLARS



Loyola University of Chicago Visiting Scholar

The NRI was honoured with a visit from Professor Karen Saban, the Associate Dean for Research with the Niehoff School of Nursing at Loyola University of Chicago. Professor Saban's research includes psychological stress and physical health in family caregivers of stroke. Future research collaborations with ACU and the NRI were discussed.

Pictured: Professor Karen Saban (left) with Professor Sandy Middleton.



Masterclass 2018 by Professor Jeremy Grimshaw

The NRI hosted a masterclass attended by over 80 people titled 'Improving care in clinical settings: An implementation science perspective' presented by Professor Jeremy Grimshaw at St Vincent's Clinic on 29 August. Professor Grimshaw is a leading authority in knowledge translation research. He is a Senior Scientist for the Clinical Epidemiology Program at Ottawa Hospital Research Institute, a Professor in the Department of Medicine, University of Ottawa, and a Tier 1 Canada Research Chair in Health Knowledge Transfer and Uptake.

Pictured: Professor Jeremy Grimshaw presenting his masterclass.

Highlights of 2018



University of Miami Research Student Program

In June, the NRI welcomed two undergraduate nursing students from the University of Miami (UM) as part of the UM-ACU undergraduate research experience program. The students were selected into the UM's Minority Health and Health Disparities International Research Training Program, which is funded by the US National Health Institute. This program is designed to give students research experience in another country. Mr Antonio Sanchez-Gonzalez and Ms Sabrina Smith worked with Dr Oyebola Fasugba and Dr Cintia Martinez-Garduno to undertake a literature review on the 'Use of postal surveys in research assessing quality of life in stroke patients and their caregivers' and on the 'Quality of life of stroke patients', respectively. The students also demonstrated their competency in data analysis by completing a small research project looking at caregivers' burden and stroke survivor self-efficacy. At the conclusion of the seven-week program, they presented their results in a research poster to the NRI team and to their peers on their return to the UM.

Pictured: Professor Sandy Middleton with the UM students and UM Associate Dean of Hemispheric and Global Initiatives (from left to right) Mr Antonio Sanchez-Gonzalez, Ms Sabrina Smith and Professor Johis Ortega.



International visiting academic with the NRI

In September, the NRI hosted a visiting academic from the Hunan University of Traditional and Chinese Medicine, China. Ms Qun Yuan was mentored by Professor Elizabeth McInnes and supported by the NRI research team to experience a university hospital co-located research environment. During her eight weeks in Sydney, Ms Yuan visited wards at St Vincent's Public and Private Hospitals. She also spent time at ACU's School of Nursing, Midwifery and Paramedicine North Sydney campus observing nursing teaching practices at the ACU and St Vincent's Hospital Sydney Clinical School.

Pictured (left to right): Mrs Joylynn Israel, Ms Simeon Dale, Professor Elizabeth McInnes, Ms Patty Zenonos, Ms Qun Yuan and Mrs Carmel Parker.

OTHER HIGHLIGHTS



St Vincent's Campus Research Week

The NRI participated in the annual St Vincent's Research Campus Sydney Research Week, 10–14 September. NRI staff showcased our research through an education booth, posters and presentations. Ms Simeon Dale, Clinical Research Fellow at the NRI, was a member of a panel discussing research careers with high school students. At the Fast Forward research presentation sessions, Professor Elizabeth McInnes presented 'Emergency Department clinicians' views on factors that influence practice change for the management of stroke: A qualitative study' and Ms Simeon Dale presented 'The association between socioeconomic factors and arrival time to Emergency Department after stroke: T³ Trial'.

Pictured: NRI booth.

Highlights of 2018



Sydney Partnership for Health, Education, Research and Enterprise (SPHERE) Implementation Science Platform

Professor Sandy Middleton, supported by Professor Elizabeth McInnes, was invited to lead the Implementation Science component of the Implementation Science and Knowledge Translation platform of the newly formed collaborative Sydney Partnership for Health, Education, Research and Enterprise (SPHERE). SPHERE is one of nine accredited NHMRC Advanced Health Research and Translation Centres, which bring together researchers, healthcare providers, education and training to improve the health and well-being of patients and the populations they serve. SPHERE and St Vincent's Health Australia have funded a 12-month secondment for a Clinical Nurse Consultant (CNC) in Implementation Research to work collaboratively with the NRI and the Director of Nursing at St Vincent's Health Network Sydney.



Visits to Mobile Stroke Units Memphis, Tennessee, USA & Royal Melbourne Hospital, Melbourne

As part of a research study program, Professor Middleton spent time observing and working on two mobile stroke units (MSU), one operated by the University of Tennessee Health Science Center in Memphis, USA, and the second operated by the Royal Melbourne Hospital. Both MSUs have on-board CT scanners capable of imaging the patient's brain in the back of the ambulance. This allows rapid detection of the type of stroke being experienced and, where applicable, prompt commencement of the clot-busting medication prior to transport to hospital. Both visits enabled Professor Middleton to gain a detailed understanding of a nurse's role in the MSU team in both an international and national context.

Pictured: Professor Anne Alexandrov, Mobile Stroke Unit chief nurse practitioner, and Professor Sandy Middleton in front of the University of Tennessee Health Science Center's Mobile Stroke Unit.



Invited Plenary Speaker Stroke 2018 Conference

Professor Elizabeth McInnes was an invited plenary speaker for the Stroke 2018 Conference held in Sydney from 7 to 10 August, with her presentation of 'Process evaluation of the Triage, Treatment and Transfer of patients with stroke in Emergency Departments trial (T³ Trial)'.

In 2018, the Stroke Society of Australasia (SSA) Annual Scientific Meeting and the Smart Strokes Australasian Nursing and Allied Health Stroke Conference combined to showcase and encourage the work of established clinicians and researchers, and bring people from stroke-related professions together to share and learn.

Pictured: Professor Elizabeth McInnes presenting her plenary at the Stroke 2018 Conference.

In Memoriam



Mr Paul Morgan RN, BA Grad Dip (Bus Admin) MEdPA

4 March 1962 – 18 October 2018

The NRI was saddened by the loss of our highly regarded and dedicated colleague, Mr Paul Morgan. Paul devoted his life to caring for others. After many years nursing, he joined the Mater Hospital North Sydney (MHNS) as a clinical data analyst within the Mater Quality Improvement Unit. Paul developed an interest in blood and transfusion practice during his time as secretary of the MHNS Blood Transfusion Committee. After successfully applying for a Friends of Mater research grant, Paul undertook a research secondment with the NRI from 2016 to 2018 to research the implementation of a blood management program in the orthopaedic unit at MHNS. His hard work and dedication resulted in a peer-reviewed publication in the *Journal of Blood Medicine*, which was published in November 2018. After a long illness, Paul passed away in October 2018.

Grants Awarded

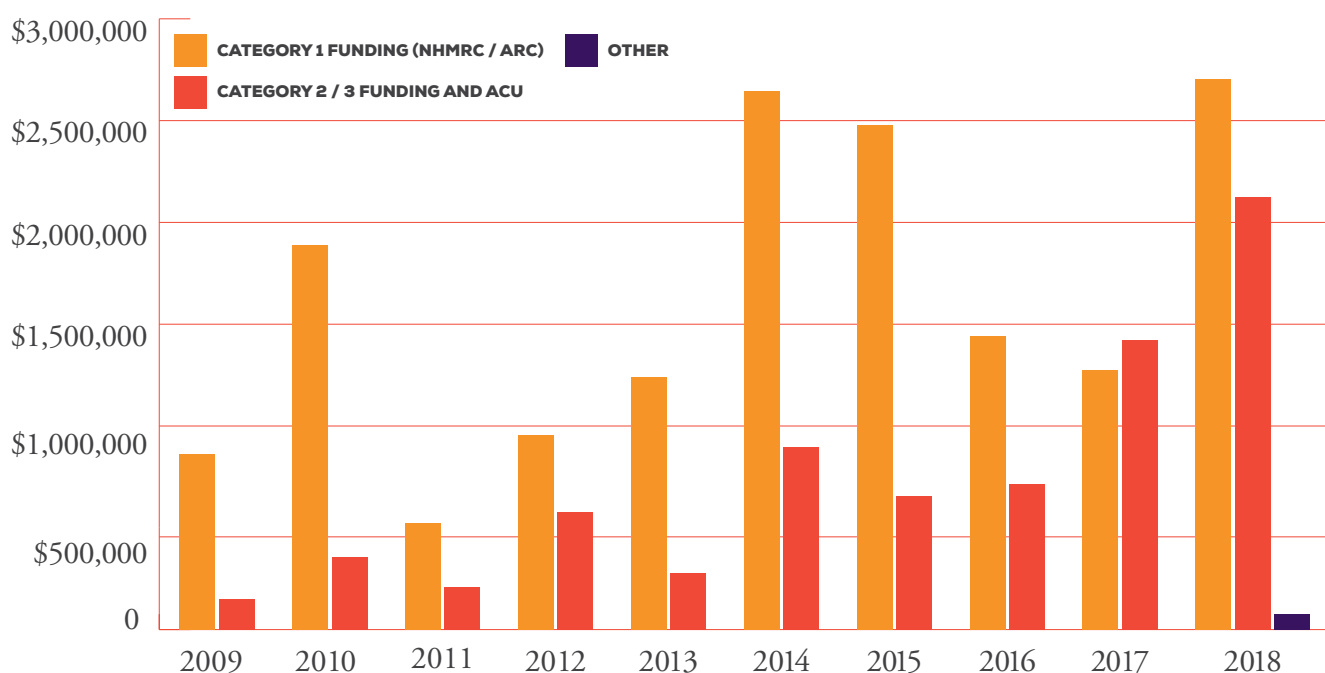


Figure 1: NRI grant funds awarded: 2009–2018

Grants Awarded

NEW GRANTS 2018

NRI staff in bold

Category 1*

1. 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; 2019: \$1,081,331; 2020: \$1,087,555; 2021: \$1,068,584; 2022: \$368,925.
Total funds awarded: \$4,359,563.
(Application ID: APP1139712)
2. Rose M, Togher L, Copland D, Kneebone I, Bernhardt J, Lindley R, 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: \$688,147; 2019: \$846,482; 2020: \$684,174; 2021: \$149,439; 2022: \$127,551.
Total funds awarded: \$2,495,793.
(Application ID: APP1153236)

Category 2 & 3[^]

3. Alexandrov AW, Alexandrov A, Metter EJ, Thomas F, Tsvigoulis G, **Middleton S**. ZerO Degree head positioning In Acute ischemic 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.
4. **Fasugba O**, Mitchell B, **Middleton S**, **McInnes E**, Cheng A, Koerner J. A systematic review of the effect of increased fluid intake in the prevention of urinary traction infection. Cardinal Health Infection Control Scholarship 2018.
Total funds awarded: \$5,000.
5. **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.

Other funds

6. **Middleton S**, **McInnes E**, Thornton A. Sydney Partnership for Health, Education, Research & Enterprise (SPHERE) Implementation Science Platform.
Total funds awarded: \$75,000.

CONTINUING GRANTS 2018

NRI staff in bold

Category 1*

1. Bernhardt J, Nilsson M, Carey L, van Vilet P, Cadilhac DA, Parsons M, Bladin C, **Middleton S**, Levi C, Donnan G. Centre for 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)
2. Bladin C, Cheung NW, Dewey H, Churilov L, **Middleton S**, Thijs V, Ekinici E. *Trial of Exenatide in Acute Ischaemic Stroke (TEXAIS)*. 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)
3. Cadilhac DA, Anderson CS, Donnan G, Levi C, Thrift A, **Middleton S**, Lannin NA, 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 Project Grant. 2012: \$319,644; 2013: \$264,678; 2014: \$305,619; 2015: \$310,059.
Total funds awarded: \$1.2M.
(Project ID: APP1034415)

* Category 1: All schemes listed on the 2018 Australian Competitive Grants Register.

[^] Category 2: Income received from state or territory government departments, whether via programs, grants or contracts. It also includes local government grant or contract income. Category 3: Funding received from non-Category 1 and 2 organisations or businesses.

Grants Awarded

4. 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 (The ENCORE Trial). 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)
 5. Van Vilet 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. 2017: \$208,149; 2018: \$208,149; 2019: \$208,149; 2020: \$208,149.
Total funds awarded: \$832,596.
(Project ID: APP1129008)
 6. 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 Project Grant. 2017: \$282,482.80; 2018: \$138,037.20; 2019: \$307,421.20; 2020: \$148,037.20.
Total funds awarded: \$1,225,978.
(Project ID: APP1134459)
- Category 2/3[^]**
7. Cadilhac DA, Hand P, Andrew N, **Middleton S**. Reducing disability from stroke by improving access to best practice stroke care in Victoria. The Florey Institute of Neuroscience and Mental Health. The Ian Potter Foundation. 2016: \$50,000; 2017: \$50,000.
Total funds awarded: \$100,000.
 8. Cadilhac DA, Lannin NA, **Middleton S**, Andrew N, 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.
 9. 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.
 10. Godecke E, Armstrong E, Bernhardt J, **Middleton S**, Rai T, Holland A, Cadilhac DA, Hankey GJ, Whitworth A, Rose M, Ciccone N. Very Early Rehabilitation in SpEEch (VERSE): RCT of aphasia therapy after stroke. The Tavistock Trust for Aphasia, United Kingdom. Philanthropic funding.
Total funds awarded: £75,000.
 11. 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.
 12. **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.
 13. Spratt N, Ada L, Nilsson M, **Middleton S**, Bernhardt J, Churilov L, Levi C, Pollack M, Faux S, Perry L, McCluskey A. Altering the Rehabilitation Environment to Improve Stroke Survivor Activity (AREISSA): A Phase II Trial. NSW CVRN Research Development Project Grant. Jan 2014 to March 2016.
Total funds awarded: \$254,633.
(Project ID: APP2013000634)
 14. 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. National Institute for Health Research – Global Health Research Group. 2018: £528,724; 2019: £743,874; 2020: £646,198.
Total funds awarded: £1,918,796.
(Project ID: 16/137/16)

* Category 1: All schemes listed on the 2018 Australian Competitive Grants Register.

[^] Category 2: Income received from state or territory government departments, whether via programs, grants or contracts. It also includes local government grant or contract income. Category 3: Funding received from non-Category 1 and 2 organisations or businesses.

Research Publications

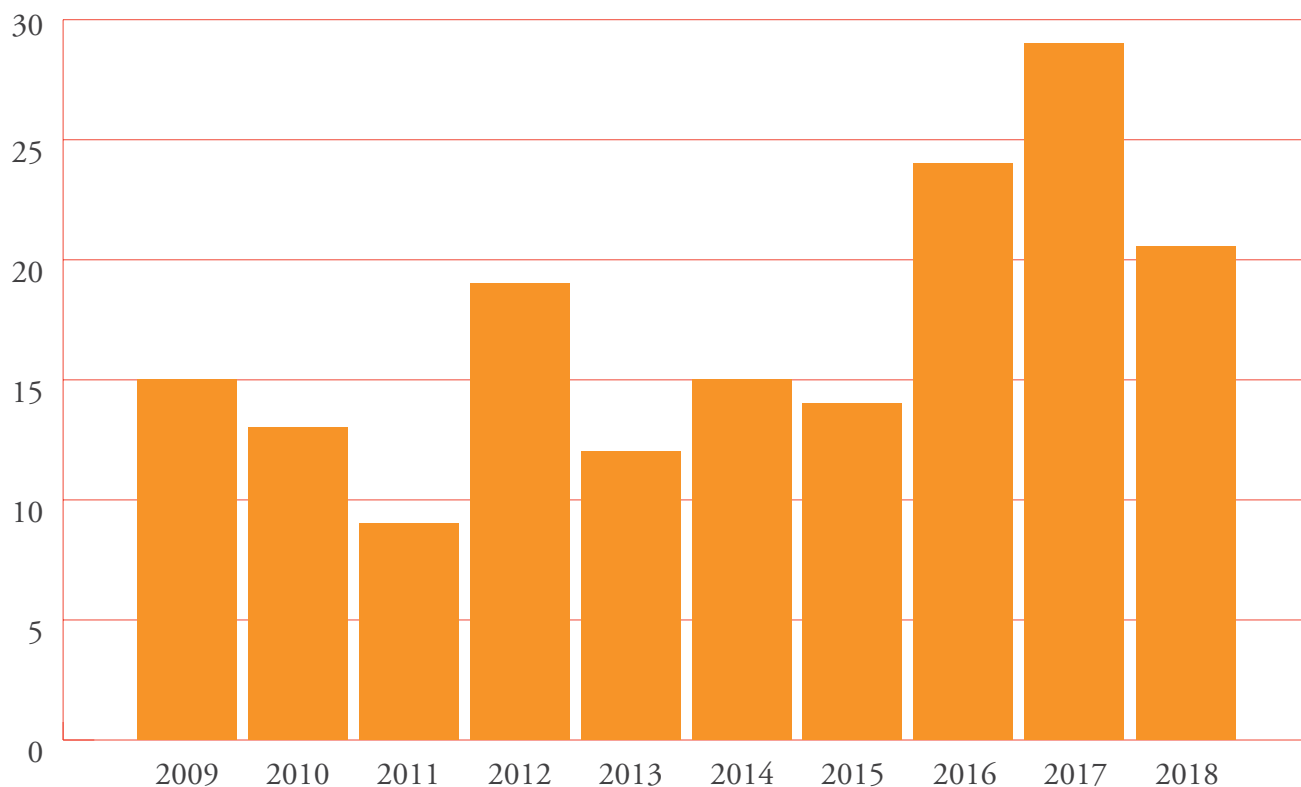


Figure 2: Number of NRI peer-reviewed publications – 2009–2018

PEER-REVIEWED PUBLICATIONS

NRI staff in bold

- Alexandrov A, Palazzo P, Biby S, Doerr A, Dusenbury W, Young R, Lindstrom A, Grove M, Tsivgoulis G, **Middleton S**, Alexandrov AW. Back to basics: Adherence with guidelines for glucose and temperature control in an American comprehensive stroke center sample. *Journal of Neuroscience Nursing* 2018;50(3):131–137. doi: 10.1097/JNN.0000000000000358.
- Aminov A**, Rogers JM, **Middleton S**, Caeyenberghs K, Wilson PH. What do randomized controlled trials say about virtual rehabilitation in stroke? A systematic literature review and meta-analysis of upper-limb and cognitive outcomes. *Journal of NeuroEngineering and Rehabilitation* 2018;15:29. doi: 10.1186/s12984-018-0370-2.
- Andrew NE, Kim J, Thrift AG, Kilkenny MF, Lannin NA, Anderson CS, Donnan GA, Hill K, **Middleton S**, Levi C, Faux S, Grimley R, Gange N, Geraghty R, Ermel S, Cadilhac DA. Prescription of antihypertensive medication at discharge influences survival following stroke. *Neurology* 2018;90(9):e745–e753. doi: 10.1212/WNL.0000000000005023.
- Busingye D, Kilkenny MF, Purvis T, Kim J, **Middleton S**, Campbell BCV, Cadilhac DA. Is length of time in a stroke unit associated with better outcomes for patients with stroke in Australia? An observational study. *BMJ Open* 2018;8(11):e022536. doi: 10.1136/bmjopen-2018-022536.
- Cadilhac DA, Andrew NE, Kilkenny MF, Hill K, Grabsch B, Lannin NA, Thrift A, Anderson CS, Donnan GA, **Middleton S**, Grimley R. Improving quality and outcomes of stroke care in hospitals: Protocol and statistical analysis plan for the Stroke123 implementation study. *International Journal of Stroke* 2018;13(1):96–106. doi: 10.1177/1747493017730741.

Research Publications

6. Craig LE, **Middleton S**, Hamilton H, Cudlip F, Swartzell V, Alexandrov AW, Lightbody E, Watkins C, Philip S, Cadilhac DA, **McInnes E**, **Dale S**, Alexandrov A. Do the addition of non-approved inclusion and exclusion criteria for rtPA impact treatment rates? Findings in Australia, the United Kingdom and the United States of America. *Interventional Neurology* 2018. Epub ahead of print. doi: 10.1159/000493020.
7. Gardner G, Gardner A, **Middleton S**, Considine J, Fitzgerald G, Christofis L, Doubrovsky A, Adams M, O'Connell J. Mapping workforce configuration and operational models in Australian Emergency Departments: A national survey. *Australian Health Review* 2018;42(3):340–347. doi: 10.1071/AH16231.
8. Godecke E, Rai T, Cadilhac DA, Armstrong E, **Middleton S**, Ciccone N, Whitworth A, Rose M, Holland A, Ellery F, Hankey GJ, Bernhardt J for the VERSE Collaboration. Statistical analysis plan (SAP) for the Very Early Rehabilitation in Speech (VERSE) after stroke trial: An international 3-arm clinical trial to determine the effectiveness of early, intensive, prescribed, direct aphasia therapy. *International Journal of Stroke* 2018;13(8):863–880. doi: 10.1177/1747493018790055.
9. Haines MM, Brown B, D'Este CA, Yano EM, Craig JC, **Middleton S**, Castaldi PA, Pollock CA, Needham K, Watt WH, Elliott EJ, Scott A, Dominello A, Klineberg E, Atkinson J, Paul C, Redman S, on behalf of the Clinical Networks Research Group. Improving the quality of healthcare: A cross-sectional study of the features of successful clinical networks. *Public Health Research Practice* 2018;28(4):e28011803. doi.org/10.17061/phrp28011803.
10. Kilkenny MF, Lannin NA, Anderson CS, Dewey HM, Kim J, Barclay-Moss K, Levi C, Faux S, Hill K, Grabsch B, **Middleton S**, Thrift AG, Grimley R, Donnan G, Cadilhac DA, AuSCR Consortium. Quality of life is poorer for patients with stroke who require an interpreter: An observational Australian Registry study. *Stroke* 2018;49(3):761–764. doi: 10.1161/STROKEAHA.117.019771.
11. Kilkenny MF, Lannin NA, Levi C, Faux S, Dewey HM, Grimley R, Hill K, Grabsch B, Kim J, Hand P, Crosby V, Gardner M, Rois-Gnecco J, Thijs VN, Anderson CS, Donnan G, **Middleton S**, Cadilhac DA. Maximising use of data and avoiding data waste: A validation study in stroke research. *Medical Journal of Australia* 2018. Epub ahead of print. doi: 10.5694/mja2.12029.
12. Kilkenny MF, Lannin NA, Levi C, Faux S, Dewey H, Grimley R, Hill K, Grabsch B, Kim J, Hand P, Crosby V, Gardner M, Rois-Gnecco J, Thijs VN, Anderson CS, Donnan G, **Middleton S**, Cadilhac DA on behalf of the AuSCR Consortium. Weekend hospital discharge: Sub-optimal care and outcomes: An observational Australian Stroke Clinical Registry study. *International Journal of Stroke* 2018. Epub ahead of print. doi: 10.1177/1747493018806165.
13. Lynch E, Ramanathan S, **Middleton S**, Bernhardt J, Nilsson M, Cadilhac DA. A mixed-methods study to explore opinions of research translation held by researchers working in a Centre of Research Excellence in Australia. *BMJ Open* 2018;8(9):e022357. doi: 10.1136/bmjopen-2018-022357.
14. Malone V, Ezard N, Clifford B, **Middleton S**, **McInnes E**, Bonevski B. A systems change intervention for nurse-led smoking cessation care in hospitals. *Collegian* 2018. Epub ahead of print. doi.org/10.1016/j.colegn.2018.07.007.
15. **McInnes E**, Jammali-Blasi A, Bell-Syer SE, Leung V. Support surfaces for pressure ulcer treatment. *Cochrane Database of Systematic Reviews* 2018, Issue 10. Art. No.: CD009490. doi: 10.1002/14651858.CD009490.pub2.
16. **Middleton S**, McElduff P, Drury P, D'Este C, Cadilhac DA, **Dale S**, Grimshaw JM, Ward J, Quinn C, Cheung NW, Levi C. Vital sign monitoring following stroke associated with 90-day independence: A secondary analysis of the QASC cluster randomized trial. *International Journal of Nursing Studies* 2018. Epub ahead of print. doi: 10.1016/j.ijnurstu.2018.09.014.
17. **Morgan PN**, Coleman P, **Martinez-Garduno CM**, Gunaratne AW, **McInnes E**, **Middleton S**. Implementation of a patient blood management program in an Australian private hospital orthopaedic unit. *Journal of Blood Medicine* 2018;9: 83–90. doi: 10.2147/jbm.s157571.
18. Muller C, Cheung WA, Dewey H, Churilov L, **Middleton S**, Thijs V, Ekinci E, Levi C, Lindley R, Donnan GA, Parsons M, Bladin C. Treatment with exenatide in acute ischemic stroke trial protocol: A prospective, randomized, open label, blinded end-point study of exenatide vs. standard care in post stroke hyperglycemia. *International Journal of Stroke* 2018;13(8), 857–862. <https://doi.org/10.1177/1747493018784436>.

Research Publications

19. Purvis T, Kilkenny MF, **Middleton S**, Cadilhac DA. Influence of stroke coordinators on delivery of acute stroke care and hospital outcomes: An observational study. *International Journal of Stroke* 2018;13(6):585–591. doi: 10.1177/1747493017741382.
20. Ramanathan S, Reeves P, Deeming S, Bernhardt J, Nilsson M, Cadilhac DA, Walker R, Carey L, **Middleton S**, Lynch E, Searles A. Implementing a protocol for a research impact assessment of the Centre for Research Excellence in Stroke Rehabilitation and Brain Recovery. *Health Research Policy and Systems* 2018;16(71). doi: org/10.1186/s12961-018-0349-2.
21. Rogers JM, Bechara J, Aminov A, **Middleton S**, Johnstone, SJ. Acute EEG patterns associated with transient ischemic attack. *Clinical EEG & Neuroscience* 2018. Epub ahead of print. doi: 10.1177/1550059418790708.
4. Godecke E, Ciccone N, Armstrong E, Ellery F, Rai T, Rose M, Whitworth A, Holland A, **Middleton S**, Hankey G, Cadilhac DA, Bernhardt J. Therapy fidelity results in an international aphasia therapy trial of a complex intervention in patients with stroke (The VERSE Trial). *International Journal of Stroke* 2018;13(1S):21 (187).
5. Kilkenny MF, Lannin NA, Kim J, Thrift A, Donnan G, Hill K, Grimley R, **Middleton S**, Anderson CS, Cadilhac DA. Stroke care and outcomes for Australian Aboriginal and non-Aboriginal patients: Observational study from the Australian Stroke Clinical Registry. *International Journal of Stroke* 2018;13(1S):7 (52).
6. Lannin NA, Anderson CS, Kim J, Donnan G, Faux S, Levi C, Dewey H, Hill K, Grimley R, Hand P, **Middleton S**, Cadilhac DA. Temporal improvements in the quality of stroke care observed in the Australian Stroke Clinical Registry. *International Journal of Stroke* 2018; 13(1S):31 (186).
7. Lynch E, Ramanathan S, **Middleton S**, Bernhardt J, Nilsson M, Cadilhac DA. What do rehabilitation researchers think about research translation? A mixed method study. *International Journal of Stroke* 2018;13(1S):10 (78).
8. Maduka C, Gunaratne AW, Dale S, Mnatzaganian G, D'Este C, **McInnes E**, **Middleton S**. The association between socioeconomic factors and arrival time to emergency departments after stroke – the T³ Trial. *Stroke* 2018;49(Suppl 1): (ATP361). doi.org/10.1161/str.49.suppl_1.TP361.
9. **McInnes E**, **Dale S**, Craig L, **Schadewaldt V**, Cadilhac DA, Grimshaw J, Considine J, D'Este C, Cheung NW, Levi C, Gerraty J, Fitzgerald M, **Middleton S**. Barriers and facilitators to implementing stroke protocols in the Emergency Department: Process evaluation of the T³ stroke trial. *International Journal of Stroke* 2018;13(1S):6 (45).
10. **Middleton S**, **McInnes E**, **Dale S**, Craig L, **Schadewaldt V**, Cadilhac DA, Grimshaw J, Considine J, D'Este C, Cheung NW, Levi C and Gerraty R. Process evaluation of the T³ stroke trial – clinicians' views on factors for successful implementation of evidence-based stroke protocols in the emergency department. *European Stroke Journal* 2018; 3(1S):271 (AS 12–007).

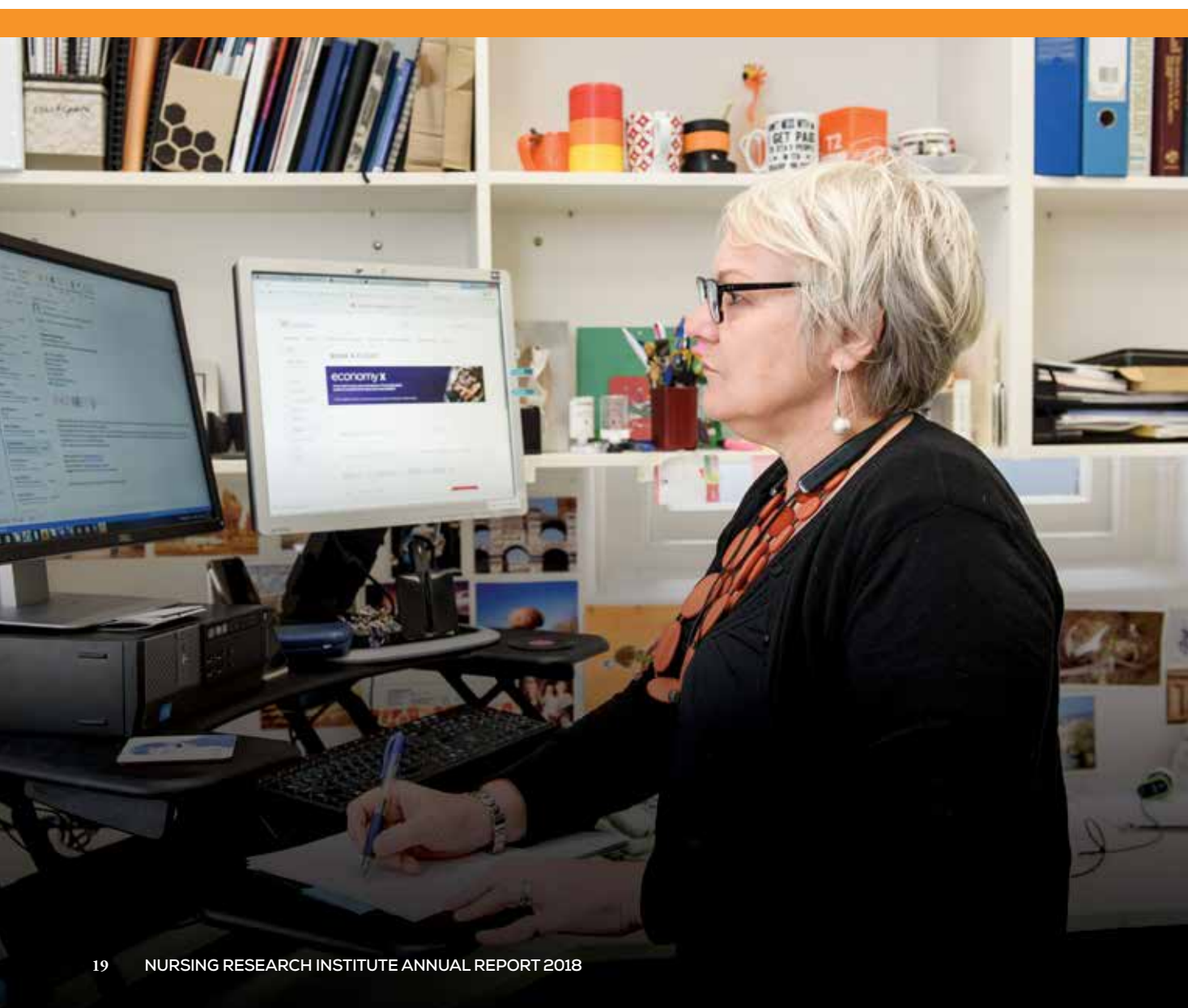
PUBLISHED CONFERENCE ABSTRACTS

Presenting author / NRI staff in bold

1. Bhaskar S, Cordato D, Cappelen-Smith C, Cheung A, Manning N, **Middleton S**, Middleton P, Zagami A, McDougall A, Wenderoth J, Levi C. Thrombolysis and Endovascular Workflow Network (TEFLON) Trial – a novel systems-based approach towards reducing reperfusion treatment delays across two major comprehensive stroke centres in Sydney. *European Stroke Journal* 2018;3(1S):517 (AS27–019).
2. Cadilhac DA, Kilkenny MF, Andrew NE, Hill K, Grabsch B, Lannin NA, Anderson CS, Levi C, Thrift A, Faux S, Donnan GA, **Middleton S**, Cadigan G, Wakefield J, Grimley R on behalf of the Stroke 123 investigators and AuSCR Consortium. Stroke 123: Results from a multicentre, controlled before and after study to improve acute stroke care in Australia. *European Stroke Journal* 2018;3(1S):7 (AS01–010).
3. Dewey H, Grimley R, Kim J, Anderson CS, Lannin NA, Donnan G, Faux S, Levi C, Hill K, Hand P, **Middleton S**, Cadilhac DA. Factors associated with contraindications to secondary prevention medications. *International Journal of Stroke* 2018;13(1S):21 (185).

Research Publications

11. Munoz-Venturelli P, Li X, **Middleton S**, Watkins C, Lavados P, Olavarria V, Brunser A, Pontes-Neto O, Santos Pontelli T, Arima H, Billot L, Hackett M, Lim JY, Song L, Robinson T, Anderson CS, for the HeadPoST Investigators. Impact of evidence-based stroke interventions on outcomes: Headpost Trial. *European Stroke Journal* 2018;3(1S):281 (AS12-036).
12. Purvis T, **Middleton S**, Craig L, Kilkenny MF, Dale S, Hill K, D'Este C, Cadilhac DA. Greater adherence in fever, hyperglycaemia, and swallowing (FESS) management for patients with acute stroke across Australia: An observational study. *International Journal of Stroke* 2018;13(1S):17 (139).
13. **Schadewaldt V**, **McElduff B**, D'Este C, **McInnes E**, Dale S, Cadilhac DA, Squires J, Grimshaw J, Levi C, Considine J, Gerraty R, Cheung W, Fitzgerald M, **Middleton S**. Associations between organisational context and evidence-based stroke care – a context analysis alongside the T³ stroke care implementation trial. *International Journal of Stroke* 2018;13(1S):4 (19).
14. **Schadewaldt V**, **McElduff B**, D'Este C, **Middleton S**, **McInnes E**, Dale S, Cadilhac DA, Cheung NW, Grimshaw J, Levi C, Considine J, Gerraty R, Squires J, The T³ Trial Investigators. Assessing organisation context in emergency departments prior to implementing evidence-based stroke care protocols – T³ Trial context analysis. *European Stroke Journal* 2018;3(1S):278 (AS12-027).



Research Seminars

In 2018, the NRI and other nurse researchers presented at research seminars convened by St Vincent's Centre for Applied Medical Research as shown below.

SPEAKER AND TOPIC
<p>Speaker: Ms Victoria Malone, Health Services Manager, SVHS Alcohol & Drug Service Title: <i>Systems change intervention for nurse-led smoking cessation in hospitals</i></p>
<p>Speaker: Mr Benjamin McElduff, Research Officer, NRI Title: <i>Association between nurse and hospital characteristics and Alberta Context Tool scores in Emergency Departments</i></p>
<p>Speaker: Dr Oyebola Fasugba, Research Officer, NRI Title: <i>Antimicrobial Resistance and Urinary Tract Infections</i></p>
<p>Speaker: Ms Nicole Heneka, Registered Nurse, Sacred Heart Hospice Palliative Care Title: <i>Exploring opioid errors in inpatient palliative care services: The PERISCOPE Project</i></p>
<p>Speaker: Professor Elizabeth McInnes, Deputy Director, NRI Title: <i>Facilitated implementation of protocols for managing stroke in the Emergency Department: Process evaluation of the T³ c-RCT</i></p>
<p>Speaker: Dr Caleb Ferguson, Senior Research Fellow, Western Sydney University Title: <i>EVICOAG study – an mHealth intervention to improve nurses' knowledge and practice of atrial fibrillation and anticoagulation</i></p>
<p>Speaker: Dr Helen Goldsmith, Clinical Nurse Consultant, Prince of Wales Hospital Title: <i>Using the trauma patient experience and evaluation of hospital discharge practices to inform practice change</i></p>

NRI researchers presented at the 2018 Mater Research Seminar Program as shown below.

SPEAKER AND TOPIC
<p>Speaker: Professor Elizabeth McInnes, Deputy Director, NRI Title: <i>Introduction to NRI and the importance of research to nursing</i></p>
<p>Speaker: Dr Cintia Martinez-Garduno, Research Officer, NRI Title: <i>Selecting a research design to match the study aim – useful tips for QI</i></p>
<p>Speaker: Mr John Rihari-Thomas, Clinical Nurse Consultant, St Vincent's Hospital Sydney Title: <i>Clinician perspectives of barriers to effective implementation of a rapid response system – focus group study</i></p>
<p>Speaker: Ms Simeon Dale, Clinical Research Fellow, NRI Title: <i>Translating evidence into practice: Tips from a program of stroke implementation research</i></p>
<p>Speaker: Professor Elizabeth McInnes, Deputy Director, NRI Title: <i>Writing a project proposal – what you need to know</i></p>
<p>Speaker: Dr Cintia Martinez-Garduno, Research Officer, NRI Title: <i>What are systematic reviews and how can they inform my clinical work?</i></p>
<p>Speaker: Professor Sandy Middleton, Director, NRI & Professor Elizabeth McInnes, Deputy Director, NRI Title: <i>Open session for Mater clinicians to present results of QI projects</i></p>

Conferences

NRI staff in bold / Presenting author underlined

INTERNATIONAL STROKE CONFERENCE 2018, LOS ANGELES, 23–26 JANUARY 2018

Middleton S. *Randomised Control Trials.* [Oral] ***Invited Presenter***

Middleton S, Dale S on behalf of the T³ Trial investigators. *The association between socioeconomic factors and arrival time to emergency departments after stroke: The T³ Trial.* [Poster]

XII NATIONAL INDIAN STROKE CONFERENCE, NEW DELHI, INDIA, 16–18 MARCH 2018

Middleton S. QASC, cluster trial and need for complete data. [Oral]

4TH EUROPEAN STROKE ORGANISATION CONFERENCE, GOTHENBURG, SWEDEN, 16–18 MAY 2018

Bhaskar S, Cordato D, Cappelen-Smith C, Cheung A, Manning N, **Middleton S**, Middleton P, Zagami A, McDougall A, Wenderoth J, Levi C. *Thrombolysis and Endovascular Workflow Network (TEFLON) trial – a novel systems-based approach towards reducing reperfusion treatment delays across two major comprehensive stroke centres in Sydney.* [Oral]

Cadilhac DA, Kilkenny MF, Andrew NE, Hill K, Grabsch B, Lannin NA, Anderson CS, Levi C, Thrift A, Faux S, Donnan GA, **Middleton S**, Cadigan G, Wakefield J, Grimley R on behalf of the Stroke 123 investigators and Australian Stroke Council Register Consortium. *STROKE123: Results from a multicentre controlled before-and-after study to improve acute stroke care in Australia.*

***Received the top average scores from independent, blinded raters. Selected for presentation in session: Presidential Symposium – Awards & Trials ***

Middleton S. Acute Stroke Triage & Treatment. [Oral] ***Invited Presenter***

McInnes E, **Dale S**, Craig L, **Schadewaldt V**, Cadilhac DA, Grimshaw J, Considine J, D’Este C, Cheung NW, Levi C and Gerraty R, **Middleton S**. *Clinicians’ views on factors for successful implementation of evidence-based stroke protocols in the Emergency Department.* [Poster]

Munoz-Venturelli P, Li X, **Middleton S**, Watkins C, Lavados P, Olavarria V, Brunser A, Pontes-Neto O, Santos Pontelli T, Arima H, Billot L, Hackett M, Lim JY, Song L, Robinson T, Anderson CS for the Head Position in STroke (HeadPoST) Investigators. *Impact of evidence-based stroke interventions on outcomes: HeadPoST Trial.* [Oral]

Schadewaldt V, **McElduff B**, D’Este C, **McInnes E**, Dale S, Cadilhac DA, Cheung NW, Grimshaw J, Levi C, Considine J, Gerraty R, Fitzgerald M, Squires J, **Middleton S**. *Assessing organisational context in Emergency Departments prior to implementing evidence-based stroke care protocols – the T³ Trial context analysis.* [Poster]

SPEECH PATHOLOGY AUSTRALIA NATIONAL CONFERENCE, ADELAIDE, 27–30 MAY 2018

Godecke E, Armstrong E, **Middleton S**, Rai T, Ciccone NA, Holland A, Whitworth A, Rose M, Ellery F, Cadilhac DA, Hankey GJ, Bernhardt J. *Efficacy of Very Early Rehabilitation in SpEEch (VERSE) after stroke: A randomised controlled trial.* [Oral]

EVIDENCE LIVE 2018, OXFORD, UNITED KINGDOM, 19–20 JUNE 2018

Lynch E, Ramanathan S, **Middleton S**, Bernhardt J, Nilsson M, Cadilhac DA. *Exploring opinions about research translation held by leading Australian stroke researchers.* [Oral]

SIGMA THETA TAU 29TH INTERNATIONAL NURSING RESEARCH CONGRESS, MELBOURNE, 19–23 JULY 2018

Middleton S, **Dale S**, Cadilhac D, **McInnes E**, Grimshaw J, Quinn C, Cheung NW, D’Este C, Levi C, Coughlan K, Rijksen M, Gerraty R, Craig L, **Schadewaldt V**, McElduff P, Cadigan G, Denisenko S, Longworth M, Fitzgerald M, Ward J, Considine J, **McElduff B**. *Implementation research and methods, from concept to translation: Lessons from a programme of stroke research* [Oral]

STROKE 2018, SYDNEY, 7–10 AUGUST 2018

Godecke E, Armstrong E, Rai T, Cadilhac DA, **Middleton S**, Ciccone N, Rose M, Whitworth A, Ellery F, Hollan A, Hankey G. *Therapy fidelity results in an international aphasia therapy trial of a complex intervention in patients with stroke (The VERSE Trial).* [Oral]

Schadewaldt V, **McElduff B**, D’Este C, **McInnes E**, Dale S, Cadilhac DA, Squires J, Grimshaw J, Levi C, Considine J, Gerraty R, Cheung W, Fitzgerald M, **Middleton S**. *Associations between organisational context and evidence-based stroke care – a context analysis.* [Oral]

McInnes E. *Process evaluation of T³ Trial: Nurse-initiated intervention to improve stroke care in the Emergency Department.*

Plenary Speaker

Conferences

WORLD STROKE CONFERENCE, MONTREAL, CANADA, 17–20 OCTOBER 2018

Maduka C, Gunaratne AW, **Dale S**, Mnatzaganian G, D'Este C, **McInnes E**, **Middleton S**. *Association between socioeconomic factors and arrival time to emergency departments after stroke*. [Oral and Poster]

Middleton S, Levi C, Fitzgerald M, Considine J, Grimshaw J, D'Este C, Gerraty R, Cheung NW, Cadilhac DA, **McInnes E**. Associate Investigators: Quinn C, Cadigan G, Ward J, Longworth M, McElduff P, **Dale S**, Denisenko S. *Process evaluation of the T³ Trial: A nurse-initiated intervention to improve stroke care in the Emergency Department*. [Poster]

GLOBAL EVIDENCE AND IMPLEMENTATION SUMMIT 2018, MELBOURNE, 20–22 OCTOBER 2018

McInnes E, **Dale S**, **Coughlan K**. *Implementation research and methods – from concept to translation: Lessons from acute care*. [Oral]

14TH INTERNATIONAL SYMPOSIUM ON THROMBOLYSIS, THROMBECTOMY AND ACUTE STROKE THERAPY, TEXAS, USA, 20–22 OCTOBER 2018

Middleton S. *Expert Panel Participant*.

ACADEMY OF APHASIA 56TH ANNUAL MEETING, MONTREAL, CANADA, 21–23 OCTOBER 2018

Godecke E, Armstrong E, Rai T, Cadilhac DA, **Middleton S**, Ciccone N, Rose M, Whitworth A, Ellery F, Hollan A, Hankey G. *Very Early Rehabilitation in Speech (VERSE) after stroke trial: An international 3-arm clinical trial to determine effectiveness of early, intensive, prescribed, direct aphasia therapy*. [Oral]

2ND WESTERN AUSTRALIAN STROKE SYMPOSIUM, PERTH, 10–11 NOVEMBER 2018

Middleton S. *Fever Sugar Swallow: What we have learned and how we should implement it*. [Oral]

Dr Lauren Saunders, Stroke Neurologist, St Vincent's Hospital Melbourne, with Professor Sandy Middleton and Ms Simeon Dale at the 4th European Stroke Organisation Conference in Gothenberg, Sweden.



Workshops and Seminars

NRI staff in bold

SPHERE IMPLEMENTATION AND EVALUATION SEMINAR, SYDNEY, 4–5 APRIL 2018

Middleton S. *International Evidence Translation: The QASC Europe Study.*

ANGEL CONSULTANTS' TRAINING DAY, GOTHENBURG, SWEDEN, 15 MAY 2018

Middleton S, Cate D'Este. *QASC Europe: Update.*

Dale S. *QASC Europe: Where to next?*

VICTORIAN STROKE MEETING, MELBOURNE, 8 JUNE 2018

Middleton S. *Code Stroke 2.0: A concierge service.*

LECTURE TO NOTRE DAME NURSING CLASS, SYDNEY, 11 SEPTEMBER 2018

Middleton S. *Translating evidence into practice: Tips from stroke implementation research.*

ST VINCENT'S SYDNEY CAMPUS RESEARCH EXECUTIVE COUNCIL, SYDNEY, 5 OCTOBER 2018

Middleton S. *Research at the NRI and ways to enhance research culture on campus.*

SCHOOL OF NURSING, MIDWIFERY AND PARAMEDICINE PROFESSIONAL DEVELOPMENT SCHOLARSHIP FORUM, SYDNEY, 31 OCTOBER 2018

Middleton S, **McInnes E.** *Thinking strategically: Opportunities for research.*

UNIVERSITY OF BERKSHIRE (SKYPE PRESENTATION), 29 NOVEMBER 2018

Dale S. *Evidence generation to evidence translation: Lessons from QASC to QASC Europe and beyond.*

AUSTRALIAN CATHOLIC UNIVERSITY SEMINAR, SYDNEY, 29 NOVEMBER 2018

Dale S. *Project Management: How to juggle multiple projects.*

ASNEN STROKE NURSE LEADERS SYMPOSIUM, MELBOURNE, 7 DECEMBER 2018

Middleton S. *Mentors – We need them and need to be them!*

Committee and Professional Affiliations

Director, Professor Sandy Middleton

Professional Membership

- + Fellow, Australian College of Nursing
- + Fellow, American Academy of Nursing
- + Fellow, European Stroke Organisation
- + Member, American Heart Association
- + Member, Australasian Association for Quality in Health Care
- + Member, International Society for Quality in Health Care
- + Member, Sigma Theta Tau International, Xi Omicron Chapter
- + Member, Stroke Society of Australasia
- + Member, World Stroke Organization

Invited Committees and Boards

- + Member, National Health and Medical Research Council (NHMRC) Research Committee
- + Member, NSW Agency for Clinical Innovation Board of Directors
- + Member, NSW Agency for Clinical Innovation Research Committee
- + Member, NSW Agency for Clinical Innovation Stroke Service NSW Executive Committee
- + Chair, NSW Agency for Clinical Innovation Stroke Service NSW Data and Benchmarking Committee
- + Member, Clinical Excellence Commission Board of Directors
- + Member, Clinical Excellence Commission Research Committee
- + Chair, Australian Clinical Stroke Registry Steering Committee
- + Member, NSW Health Stroke Ambulance Pilot Working Group
- + Chair, NSW Health Stroke Ambulance Research Sub-committee
- + Co-Chair, Implementation Science and Knowledge Translation Platform for Sydney Partnership for Health, Education, Research and Enterprise (SPHERE)
- + Member, Translational Research Fellowship Committee for SPHERE
- + Member, Translation Committee for SPHERE
- + Member, Clinical Trials Conduct: Clinician, Public and Patient Involvement Steering Committee for SPHERE
- + Member, Australian Stroke Coalition Executive Committee
- + Member, Stroke Foundation, Living Guidelines Stroke Development Working Group
- + Co-Chair, Stroke Foundation, Living Guidelines Stroke Development Nursing Sub-committee Working Group
- + Member, Royal Australasian College of Surgeons Clinical Academic Pathways Working Group (representing Australian College of Nursing)
- + Member, Executive Committee for the Trial of Exenatide in Acute Ischaemic Stroke
- + Member, American Heart Association Nursing Symposium Scientific Committee
- + Member, European Stroke Organisation Conference, 2018 Allied Health (and Nursing) Sub-committee
- + Member, World Stroke Organization Education Committee
- + Member, St Vincent's Health Australia, Clinical Assurance and Reliability Program Steering Committee
- + Member, St Vincent's Health Network Sydney, Nursing Advisory Council
- + Member, St Vincent's Health Network Sydney, Research Advisory Council

Committee and Professional Affiliations

Deputy Director, Professor Elizabeth McInnes

Professional Membership

- + Author and Editor, Cochrane Wounds Group
- + Member, Australasian Evaluation Society
- + Member, Health Services Research Association of Australia and New Zealand
- + Member, Wounds Australia
- + Member, International Learning Collaborative – Fundamentals of Care
- + Member, Knowledge Utilization Colloquium

Invited Committees and Boards

- + Deputy Chair, Australian Catholic University, School of Nursing, Midwifery and Paramedicine Research and Research Training Committee
- + Member, St Vincent's Health Network Sydney, Nursing Advisory Council
- + Member, St Vincent's Health Network Sydney, Clinical Council
- + Member, St Vincent's Campus Research, Council Committee
- + Member, Sydney Partnership for Health, Education, Research and Enterprise, Nursing and Midwifery Academy
- + Member, Sydney Partnership for Health, Education, Research and Enterprise, Musculo-skeletal Clinical Advisory Group





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