

Nursing Research Institute



ANNUAL REPORT 2019

Nursing Research Institute

The Nursing Research Institute (NRI) is a collaboration between Australian Catholic University (ACU), St Vincent's Health Australia Sydney (SVHAS) and, since May 2019, St Vincent's Hospital Melbourne (SVHM). The NRI is a highly productive nursing 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 patient safety and hospital-acquired complications.

OUR VISION

To lead a world-class centre in nursing-led 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 world-class researchers and research students.

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Message from the Directors

The NRI has achieved another successful year with a new professorial appointment and funded projects and collaborations. In this report we showcase some of the highlights.

This year, the NRI's Deputy Director, Professor Elizabeth McInnes, was appointed as the Professor of Nursing at St Vincent's Hospital Melbourne (SVHM). Professor McInnes commenced her role in May 2019 and is working closely with Clinical Associate Professor Kathryn Riddell, Chief Nursing Officer SVHM, to provide leadership in nurse-led multidisciplinary health research. Excitingly, this collaboration will also provide opportunities for the NRI to conduct translational research at both St Vincent's Health Australia Sydney (SVHAS) and SVHM. The NRI research team now consists of 18 research and administrative staff located in New South Wales and Victoria.

Additional highlights include:

- Vice-Chancellor's Staff Excellence Award (Excellence in Research and Research Partnerships) for the Quality in Acute Stroke Care (QASC) 10-year research program.
- A score of 'high' on the Australian Research Council's inaugural Engagement and Impact exercise for outcomes arising from the National Health and Medical Research Council funded Quality in Acute Stroke Care trial.
- The inaugural Nursing Research Symposium held at St Vincent's Hospital Melbourne.
- The appointment of Ms Lauren Christie as the inaugural Allied Health Senior Research Fellow, Implementation Science Research, a joint position between the NRI and SVHAS to support allied health research.

These research achievements would not have been possible without the ongoing commitment from St Vincent's Health Australia Sydney, St Vincent's Hospital Melbourne, and the Australian Catholic University. We gratefully acknowledge their support and vision and thank our funders, collaborators and hospital partners for another productive year. We hope that you enjoy reading the NRI's year in review for 2019.

Professor Sandy Middleton
Director

Professor Elizabeth McInnes
Deputy Director



NRI Partnerships and 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 SYDNEY

NRI Steering and Management Committees



Adjunct Professor Anna Thornton
(2019 Chair, Management Committee)
Director of Nursing (DoN)
St Vincent's Health Network Sydney



Clinical Associate Professor Kathryn Riddell (since July 2019)
Chief Nursing Officer (CNO)
St Vincent's Hospital Melbourne



Adjunct Professor Margaret Kenny
Director of Clinical Services
St Vincent's Private Hospital Sydney

NRI Steering Committee only



Adjunct Professor Anthony Schembri AM
Chief Executive Officer (CEO)
St Vincent's Health Network Sydney



Ms Angela Nolan (since July 2019)
Chief Executive Officer
St Vincent's Hospital Melbourne

NRI Management Committee only



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



Adjunct Professor John Geoghegan (until May 2019)
Director of Nursing and Operations
St Joseph's Hospital Sydney



Ms Joyce Baye (since June 2019)
Acting 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
(2019 Chair, Steering Committee)
Executive Dean
Faculty of Health Sciences



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



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

NRI Management Committee



Associate Professor Alicia Evans (July-Dec 2019)
Head of School
School of Nursing, Midwifery and
Paramedicine (VIC)



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

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) (Jan-Mar)
Nursing Research Institute



Mrs Tara Doyle
Personal Assistant to the Director of NRI
(Part-time) (Apr-present)
Nursing Research Institute



Ms Patty Zenonos
Executive Officer
Nursing Research Institute



DIRECTOR



Professor Sandy Middleton

DEPUTY DIRECTOR



Professor Elizabeth McInnes

RESEARCHERS



Ms Jenna Bartyn

Research Assistant (Nov–present)
Transforming nursing assessment in acute hospitals: A cluster randomised controlled trial of an EvidNce-based CORE assessment protocol (ENCORE)



Ms Denise Brennan

Research Assistant (Nov–present)
Transforming nursing assessment in acute hospitals: A cluster randomised controlled trial of an EvidNce-based CORE assessment protocol (ENCORE)



Ms Heilok Cheng

Research Assistant (Part-time)
Cochrane Systematic Review: Interventions for uptake of evidence-based recommendations in acute stroke settings
Trial of Exenatide in Acute Ischaemic Stroke (TEXAIS)
Oral Care Survey
Clinical Quality Registry – St Vincent's Hospital Sydney



Mrs Kelly Coughlan

Research Assistant (Part-time)
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 Alysia Coventry

Research Assistant (Part-time) (May–present)
All projects



Ms Simeon Dale

Clinical Research Fellow and Trials 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 (Part-time)
All projects



Mrs Joylynn Israel

Research Officer (Part-time)
All projects



Mr Jaimini Leigh

Statistician Mentee (Part-time)
Quality in Acute Stroke Care (QASC) Europe Project



Ms Chinonye Maduka

Research Assistant (Nov–present)
Transforming nursing assessment in acute hospitals: A cluster randomised controlled trial of an EvidNce-based CORE assessment protocol (ENCORE)



Dr Cintia Martinez-Garduno

Research Officer (Part-time) (Jan–Aug)
Oral Care Survey
Code Stroke 2.0 Pilot Study
Other projects



Mr Benjamin McElduff

Research Officer/Statistician (Part-time)
Quality in Acute Stroke Care (QASC) Europe Project
Triage, Treatment and Transfer of patients with stroke in Emergency Departments (T³ Trial)
Use of Fascia Iliaca Blocks in elderly patients with a fractured neck of femur



Ms Tanya Pritchard

Research Officer (Part-time) (Sept–present)
All projects



Dr John Rihari-Thomas

Senior Project Manager
Transforming nursing assessment in acute hospitals: A cluster randomised controlled trial of an EvidNce-based CORE assessment protocol (ENCORE)

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



Ms Lauren Christie

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



Mrs Julie Gawthorne

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



Ms Nicole Mastello

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



Ms Kirsty Page

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



Ms Susan Whittam

Clinical Nurse Educator, Intensive Care Unit, St Vincent's Hospital Sydney
EvidNce-based CORE assessment protocol (ENCORE)

ACU MID-CAREER RESEARCHER



Dr Mahnaz Fanaian

Lecturer (Nursing), Australian Catholic University, School of Nursing, Midwifery and Paramedicine NSW/ACT
Assorted projects

ADMINISTRATION



Mrs Joylynn Israel

Personal Assistant to Director of NRI (Part-time)



Mrs Tara Doyle

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



Mrs Carmel Parker

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



Ms Patty Zenonos

Executive Officer



Highlights of 2019

SVHAS AND SVHM ACTIVITIES



NRI marks a decade of growth with expansion to St Vincent's Hospital Melbourne

NRI Deputy Director, Professor Elizabeth McInnes was appointed in May as Professor of Nursing at St Vincent's Hospital Melbourne (SVHM). Working closely with Professor Sandy Middleton (NRI Director), Clinical Associate Professor Kathryn Riddell (CNO SVHM) and Adjunct Professor Anna Thornton (DoN SVHNS), this appointment increases opportunities for multi-site research and collaborations across SVHM and SVHNS. Mrs Kelly Coughlan and Ms Alysia Coventry provide research assistance to Professor McInnes at the Melbourne NRI office and assist with mentoring SVHM clinician-researchers.

Pictured left to right: Clinical Associate Professor Kathryn Riddell (CNO, SVHM), Professor Elizabeth McInnes (Deputy Director, NRI), Adjunct Professor Patricia O'Rourke (CEO, St Vincent's Public Hospitals), Professor Sandy Middleton (Director, NRI), Ms Bree Nation (Director, Nursing Workforce Strategy and Planning SVHM), and Adjunct Professor Anna Thornton (DoN, SVHNS).



NRI St Vincent's Hospital Melbourne Symposium 31 October

The inaugural SVHM ACU Nursing Symposium hosted 95 attendees to welcome a new era of nursing-led research at SVHM. Ms Angela Nolan (CEO SVHM) opened the symposium. The plenary address 'Evidence-based practice – everyone's business', was given by Emeritus Professor Glenn Gardner (Queensland University of Technology). The Symposium showcased many excellent presentations from inspiring SVHM clinicians and researchers, and from distinguished researchers including Professor Mei Krishnasamy (Chair in Cancer Nursing, University of Melbourne; Honorary Senior Research Fellow, Department of Cancer Experiences Research, Peter MacCallum Cancer Centre) and Professor Peter Hudson (Director of The Centre for Palliative Care Research). Clinical Associate Professor Kathryn Riddell (CNO SVHM) gave a closing address outlining exciting plans for a new era of nursing-led research at SVHM.

Pictured from left to right: Professor Sandy Middleton, Ms Simeon Dale, Professor Peter Hudson, Professor Elizabeth McInnes, Emeritus Professor Glenn Gardner and Professor Mei Krishnasamy.



Research week

St Vincent's Hospital Melbourne 5–9 August

The NRI participated in the Aikenhead Centre for Medical Discovery Research Week. Professor McInnes, Dr Oyebola Fasugba and Ms Alysia Coventry contributed two posters and three oral presentations (see page 24 for presentation and poster titles).

St Vincent's Campus Sydney 23–27 September

At the St Vincent's Campus Research Week in Sydney, NRI staff showcased research through education booths, posters and three Fast Forward presentations (see page 24 for presentation titles). Dr John Rihari-Thomas gave an overview of his research career to high school students.

Highlights of 2019

SVHAS AND SVHM ACTIVITIES



Better Bedside Handover Project

In partnership with St Vincent's Health Network Sydney (SVHNS) and led by renowned expert in applied linguistics, Professor Diana Slade from the Australian National University, the NRI, SVHNS and SVHM are participating in an innovative research project aimed at improving nurses' bedside handover communication skills. This project was made possible through philanthropic funding from the Handbury Family Trust via the St Vincent's Curran Foundation.



Maridulu Budyari Gumal Sydney Partnership for Health, Education, Research and Enterprise (SPHERE) Internship

St Vincent's Hospital Sydney Clinical Nurse Consultant, Mrs Julie Gawthorne was awarded a twelve-month NRI research internship funded by the Maridulu Budyari Gumal Sydney Partnership for Health, Education, Research and Enterprise (SPHERE) and St Vincent's Health Network Sydney. As part of her work, Mrs Gawthorne undertook a survey of Clinical Registry activity at SPHERE-affiliated hospitals.



Maridulu Budyari Gumal SPHERE Implementation Science and Knowledge Translation workshop

The Maridulu Budyari Gumal SPHERE Implementation Science and Knowledge Translation platforms and the NRI hosted a workshop at the University of Technology Sydney for SPHERE health service clinicians to learn how to translate evidence into practice. The keynote presentation was given by Professor Rebecca Lawton (University of Leeds, United Kingdom) and was facilitated by Dr Elizabeth Lynch, NHMRC Early Career Research Fellow, Adelaide Nursing School, Faculty of Health & Medical Sciences, University of Adelaide, and Dr Shanthi Ramanathan, Post Doctorate Fellow, Health Research Economics, Hunter Medical Research Institute.

Pictured left to right: Mrs Julie Gawthorne, Ms Lauren Christie, Dr Caleb Ferguson, Dr Elizabeth Lynch, Dr Shanthi Ramanathan and Professor Sandy Middleton.

Highlights of 2019

AWARDS AND HONOURS



QASC team wins ACU Vice-Chancellor's Staff Excellence Award

The NRI's *Quality in Acute Stroke Care* project team won the ACU Vice-Chancellor's Staff Excellence Award in the category of Excellence in Research and Research Partnerships. The Vice-Chancellor, Professor Greg Craven, presented the award at a University ceremony on 16 October. Pictured are NRI QASC team members with the ACU Vice-Chancellor.



Australian Academy of Health and Medical Sciences Fellow

Professor Sandy Middleton (pictured with Professor Ian Frazer AC) is now a Fellow of the Australian Academy of Health and Medical Sciences. Professor Middleton is one of three nurses ever to be admitted to the Academy. The Fellowship is recognition for the high impact and rigour of Professor Middleton's program of internationally recognised stroke research that has resulted in changes to health policy, health system cost savings and improved patient outcomes.

Photography: David Broadway



Federal Health Minister's Trailblazing Award

Professor Sandy Middleton was a finalist for the inaugural Australian College of Nursing Health Minister's Award for Nursing Trailblazers, which acknowledges the achievements of nurses in leading practice and systems innovation. An interview with Professor Middleton is here:

<https://www.acn.edu.au/nurseclick/interview-with-trailblazer-finalist-professor-sandy-middleton-facn>

Pictured left to right: Professor Christine Duffield (President, Australian College of Nursing), Professor Sandy Middleton, Lord Nigel Crisp (Co-Chair Nursing Now and Co-Chair All-Party Parliamentary Group on Global Health) and Adjunct Professor Kylie Ward (CEO, Australian College of Nursing).

Engagement and Impact

Engagement and Impact (EI) is a companion exercise to Excellence in Research for Australia (ERA) and data collected for ERA forms part of the EI assessment. Unlike ERA, the focus is on the institutional context.

The objectives of EI are to:

- Identify institutional processes and infrastructure that enable research engagement;
- Provide greater support for the translation of research impact into contributions for the health of Australia beyond academics; and
- Identify ways in which institutions currently translate research into impact.

WHAT ARE THE REFERENCE PERIODS?
 ERA is a retrospective assessment. As the data are from the table, while the data submission is due in 2020, we are looking the end of the assessment period for the submission.

AREAS OF ASSESSMENT	2014-2016	2017-2019	2020-2022
ENGAGEMENT	0-100	0-100	0-100
IMPACT	0-100	0-100	0-100
APPROACH	0-100	0-100	0-100
ASSOCIATED RESEARCH	0-100	0-100	0-100

The engagement and impact assessment is integral to ERA and is assessed against the same criteria as ERA.

Excellence in Research Australia (ERA) success

The NHMRC-funded Quality in Acute Stroke Care trial, led by Professor Middleton, was awarded a score of 'high' for outstanding impact in the Australian Research Council's inaugural 2018 Engagement and Impact assessment outcomes announced in March 2019.

[Click this link for full information](#)

Highlights of 2019

AWARDS AND HONOURS



Best Poster – Joanna Briggs Regional Symposium Evidence Based Healthcare

Mrs Julie Gawthorne (pictured left), Clinical Nurse Consultant Implementation Fellow, who is seconded to the NRI from SVHNS, won best poster at the Australasian Joanna Briggs Regional Symposium for her research titled 'Can emergency nurses safely and effectively insert fascia iliaca blocks in patients with a fractured neck of femur'.

INTERNATIONAL COLLABORATIONS



Visiting Scholar from Germany

Visiting academic, Professor Anne-Kathrin Cassier-Woidasky (pictured second from left with NRI team members) from the Baden-Wuerttemberg Cooperative State University in Germany was hosted by the NRI during her Australian sabbatical. Professor Cassier-Woidasky is currently implementing, in Germany, the NRI-led international research project: *Quality in Acute Stroke Care Europe*.



International Self-Care Symposium, Rome

The inaugural ACU International Self-Care Symposium was held in Rome, May 2019. Professor Barbara Riegel, Edith Clemmer Steinbright's Professor of Gerontology and ACU Professorial Fellow, facilitated a think-tank on self-care and implementation science with international experts including Professor Sandy Middleton. From the conference, a discussion paper was produced (see Peer-reviewed Publications).

Pictured left to right: Professor Sandi Dunbar, Professor Ken Freedland, Professor Sandy Middleton, Professor Christopher Lee, Professor Donna Fitzsimons (back left), Professor Barbara Riegel, Professor Wayne McKenna (back row), Professor Tiny Jaarsma, Professor Michelle Campbell, Professor James McLaren, Professor Ercole Vellone and Dr David Webber.



ACU staff visit University of Miami

In February 2019, Professor Campbell, Executive Dean of ACU Faculty of Health Sciences, and Professor Middleton attended an international meeting with University of Miami nursing students and staff in Miami to discuss a long-standing collaboration between the two Universities on Minority and Health Disparities International Research Training.

Pictured left to right: Mr Amir Davoodi, Professor Johis Ortega, Ms Kemika Lundy, Tracey Agyeiwaa-Piasare, Professor Michelle Campbell and Professor Sandy Middleton.



NRI

Research Projects

Projects are listed by National Safety and Quality Health Service Standards. *Projects involving either St Vincent's Health Australia Sydney or St Vincent's Hospital Melbourne are italicised.*

CLINICAL GOVERNANCE
1. <i>AVERT-DOSE (Determining Optimal early rehabilitation after Stroke): A multi-arm covariate-adjusted, response-adaptive randomised controlled trial</i>
2. STROKE123: A national collaborative to monitor, promote, and improve the quality of stroke care in hospitals and patient outcomes
3. <i>Clinical Quality Registry – St Vincent's Hospital Sydney</i>
4. Code Stroke 2.0
5. <i>Qualitative study of purchasing and disinvestment processes in acute care hospitals</i>
PARTNERING WITH CONSUMERS
6. Centre for Research Excellence in Paediatric Emergency Medicine
7. <i>Peritoneal Dialysis Patients' Health and Well Being and Satisfaction with Care</i>
8. <i>ReCAPS: Reintegration into the Community to Address patient-centered recovery goals and improve Participation after Stroke</i>
PREVENTING AND CONTROLLING HEALTHCARE-ASSOCIATED INFECTION
9. <i>Improving patient safety by reducing hospital acquired urinary tract infections</i>
MEDICATION SAFETY
10. <i>Use of Fascia iliaca Blocks in elderly patients with a fractured neck of femur</i>
COMPREHENSIVE CARE
11. AREISSA: Altering the Rehabilitation Environment to Improve Stroke Survivor Activity
12. Cochrane Review: Interventions for uptake of evidence-based recommendations in acute stroke settings
13. Centre for Research Excellence for Stroke Rehabilitation and Brain Recovery
14. Centre for Research Excellence in Aphasia Recovery and Rehabilitation
15. Improving arm function after stroke using task specific training
16. IMPROVISE: National Institute for Health Research: Global Health Research Programme – Global stroke research group in India
17. <i>Oral health care practices for stroke patients in acute care: An international survey</i>
18. Predictors of Ischemic Stroke Outcomes. Center for Health Outcomes and Informatics Research
19. Quality in Acute Stroke Care (QASC) Europe Project

NRI

Research Projects

20. <i>RAVIE: Improving the capacity to deliver evidence-based care for acute stroke using educational workshops in developing countries</i>
21. TEFLON: Thrombolysis and Endovascular Workflow Network Trial
22. <i>TEXAIS: Post-stroke hyperglycaemia: Treatment with EXenatide in Acute Ischaemic Stroke Trial</i>
23. VERSE: Very Early Rehabilitation in SpEech: Development of an Australian randomised controlled trial of aphasia therapy after stroke
24. ZODIAC: Degree head positioning In Acute IschemiC stroke
25. <i>Better Bedside Handover: Effective communication in clinical handover: research and intervention to improve patient safety and satisfaction at St Vincent's Sydney, St Joseph's Hospital and St Vincent's Hospital Melbourne</i>
26. CHIP: An evidence-based approach to improving outcomes and reducing hospital-acquired complications in patients with rib fractures: Chest Injury Pathway
27. <i>DecubICUs pressure ulcers in intensive care units: The global point-prevalence study</i>
28. <i>End of Life Care in the Intensive Care Unit</i>
29. <i>Translation of best practice osteoporosis refracture prevention: stopping fragility fractures to keep Australians out of hospital</i>
COMMUNICATING FOR SAFETY
30. <i>ETHOS: Creating a culture of safety and respect: A controlled, mixed methods study of effectiveness of a behavioural accountability intervention to reduce unprofessional behaviours</i>
RECOGNISING AND RESPONDING TO ACUTE DETERIORATION
31. <i>ENCORE: Transforming nursing assessment in acute hospitals: A cluster randomised controlled trial of an EvidenCe-based CORE assessment protocol</i>
32. <i>Transforming Nursing Assessment in Acute Hospitals</i>
OTHER PROJECTS
33. i-Gen project
34. Cochrane support surfaces: network meta-analysis
35. <i>Optimising Scope of Practice of the nursing workforce to increase access to care for people experiencing or at high risk of vulnerability</i>
36. Reporting research translation and impact

Grants Awarded

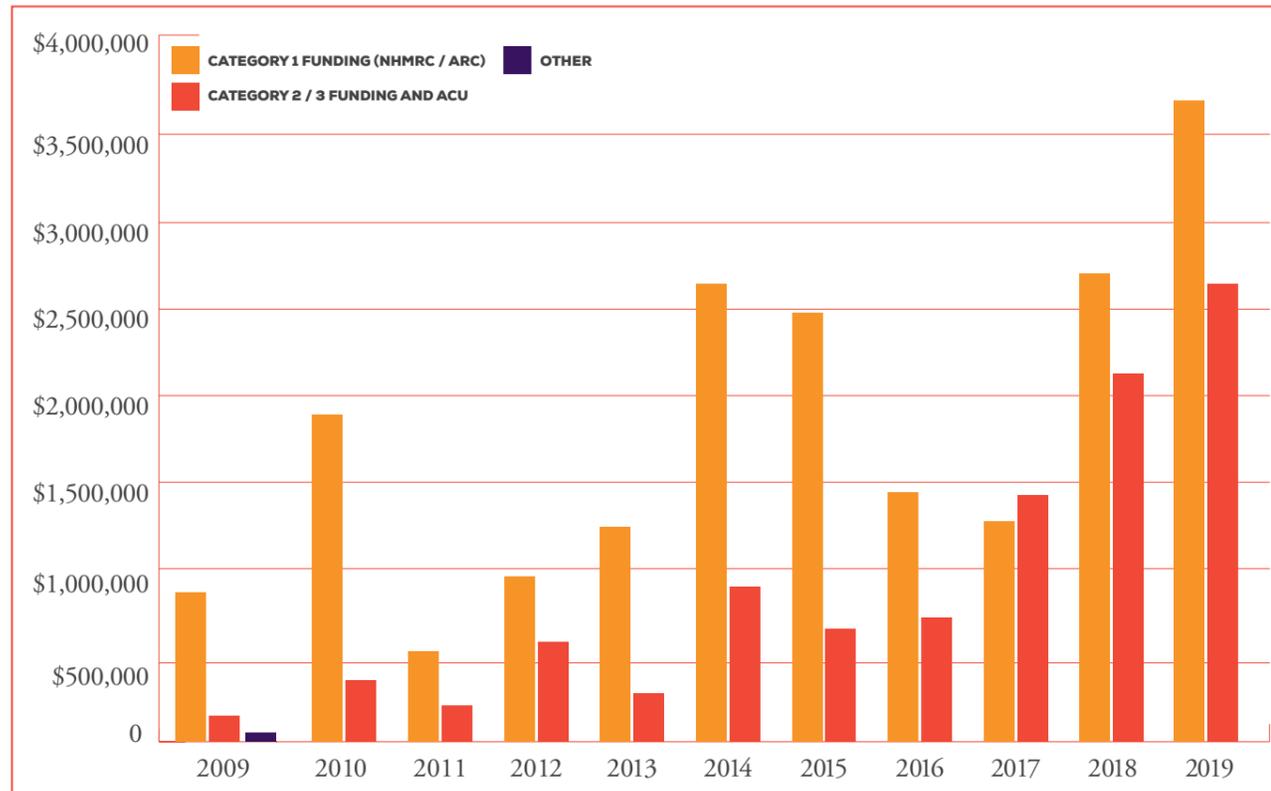


Figure 1: NRI grant funds awarded: 2009–2019

NEW GRANTS 2019

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)
2. 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.** (Application ID: APP1176600)

Category 2 & 3^

3. Cadillac DA, **Middleton S**, Grimley R, Pandian J, Nguyen TH, Vo TTC, Tran BQ, Watkins CL, Lightbody CE, Boaden E. 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. **Total funds awarded: \$95,922.** Partner contribution: Cash: \$41,193.03; In Kind: \$137,115.03; Total grant: \$260,518.93.
4. **Middleton S, Fasugba O, McInnes E**, Baye J, Shephard J, Gordon R, Ali A. Improving patient safety by reducing hospital-acquired urinary tract infections. St Vincent's Clinic Foundation Multidisciplinary Patient Focused Grant. **Total funds awarded: \$24,732.98.**
5. Saban KL, Akbilgic O, Bobay K, De La Pena P, Donahey E, Gill R, Karabayir I, **Middleton S**, Rasmussen T. Predictors of Ischemic Stroke Outcomes. Center for Health Outcomes and Informatics Research. **Total funds awarded: US\$48,695.**
6. Thornton A, **Middleton S**, Taylor J, **McInnes E**, Douglas C. Transforming Nursing Assessment in Acute Hospitals. Nurse/Midwife Strategy Reserve, NSW Ministry of Health. **Total funds awarded: \$492,182.**
7. Riddell K, **McInnes E**. Transforming Nursing Assessment in Acute Hospitals. Nurses Board of Victoria Legacy Limited. **Total funds awarded: \$189,814.**

Grants Awarded

CONTINUING GRANTS 2019

NRI staff in bold

Category 1*

8. Bladin C, Cheung NW, Dewey H, Churilov L, **Middleton S**, Thijs V, Ekinci E. Post-stroke hyperglycaemia – Treatment with Exenatide in Acute Ischaemic Stroke (TEXAIS) trial. National Health and Medical Research Council – Project Grant. 2017: \$432,459; 2018: \$416,844; 2019: \$416,844. **Total funds awarded: \$1,266,149.** (Project ID: APP1126070)
9. 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)
10. Rose M, Togher L, Copland D, Kneebone I, Bernhardt J, Lindley RI, Carey L, Godecke E, Cadillac DA, Churilov L. Associate Investigator: Middleton S. Centre of Research Excellence in Aphasia Recovery and Rehabilitation. National Health and Medical Research Council – Centres of Research Excellence Grant. 2018: \$688,146; 2019: \$846,482; 2020: \$684,174; 2021: \$149,439; 2022: \$127,551. **Total funds awarded: \$2,495,792.** (Application ID: APP1153236)
11. 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. 2017: \$208,149; 2018: \$208,149; 2019: \$208,149; 2020: \$208,149. **Total funds awarded: \$832,596.** (Project ID: APP1129008)
12. 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). NHMRC Partnership Grant. NHMRC Contribution: \$875,978 – 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)
13. 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: \$753,169; 2019: \$1,081,331; 2020: \$1,087,555; 2021: \$1,068,584; 2022: \$368,924. **Total funds awarded: \$4,359,563.** (Application ID: APP1139712)

Category 2/3^

14. Alexandrov AW, Alexandrov A, Metter EJ, Thomas F, Tsiygoulis G, **Middleton S**. ZerO Degree head positioning In Acute ischemic stroke (ZODIAC). National Institutes of Health (USA). 2018: USD\$500,612; 2019: USD\$480,012; 2020: USD\$480,012; 2021: USD\$467,219; 2022: USD\$434,506. **Total funds awarded: USD\$2,362,361** (AUD\$3,334,236).
15. 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.**
16. **Middleton S, Dale S, McInnes E**, Levi C, Cheung NW, Grimshaw J, D'Este C, Cadillac 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.**
17. 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**, Cadillac 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** (AU\$3,154,663). (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

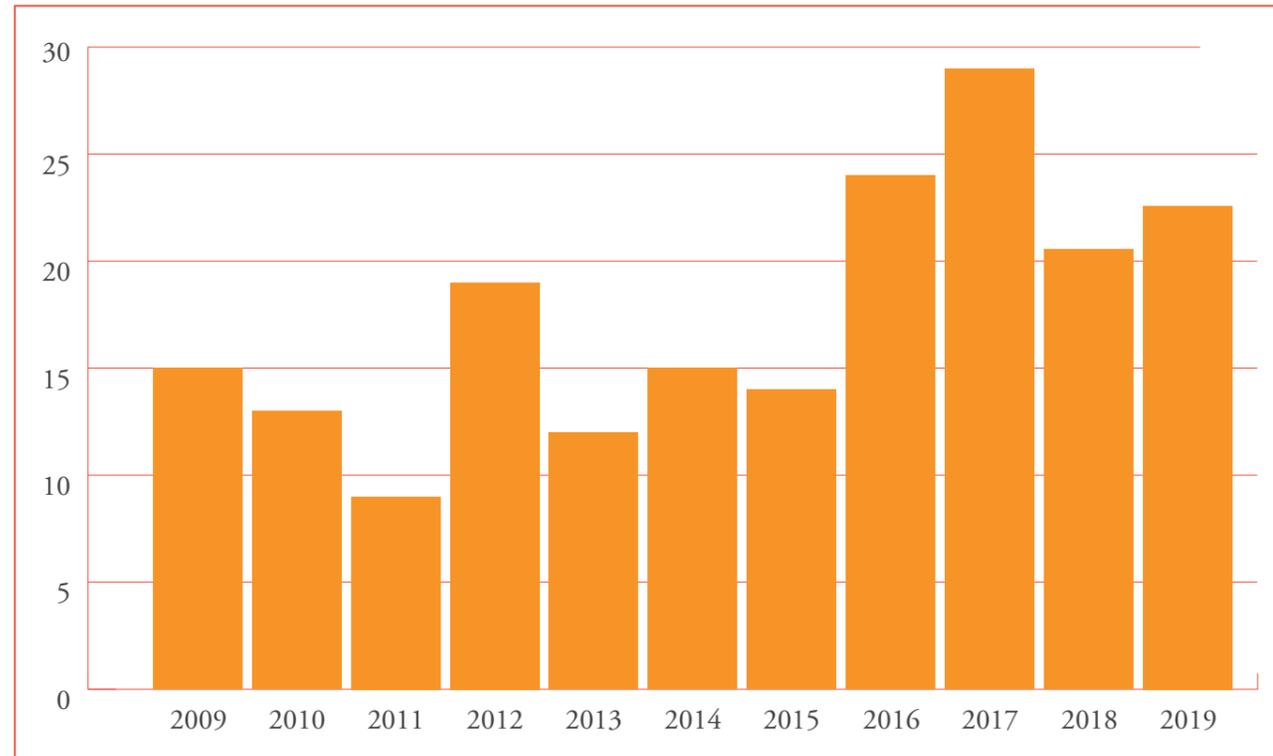


Figure 2: Number of NRI peer-reviewed publications, 2009–2019

PEER-REVIEWED PUBLICATIONS

NRI staff (current and past) in bold

- Andrew NE, **Middleton S**, Grimley R, Anderson CS, Donnan GA, Lannin NA, Stroil-Salama E, Grabsch B, Kilkenny MF, Squires JE, Cadilhac DA on behalf of the Stroke123 Investigators. Hospital organizational context and delivery of evidence-based stroke care: a cross-sectional study. *Implementation Science* 2019; 14:6. <https://doi.org/10.1186/s13012-018-0849-z>
- Cadilhac DA, Kilkenny MF, Lannin NA, Dewey H, Levi C, Hill K, Grabsch B, Grimley R, Blacker D, Thrift A, **Middleton S**, Anderson CS, Donnan GA on behalf of the Australian Stroke Clinical Registry Consortium. Outcomes for patients with in-hospital stroke: a multicenter study from the Australian Stroke Clinical Registry. *Journal of Stroke and Cerebrovascular Diseases* 2019; 28(5):1302–1310. <https://doi.org/10.1016/j.jstrokecerebrovasdis.2019.01.026>
- Cadilhac DA, Grimley R, Kilkenny MF, Andrew NE, Lannin NA, Hill K, Grabsch B, Levi C, Thrift AG, Faux SG, Wakefield J, Cadigan G, Donnan GA, **Middleton S**, Anderson CS on behalf of the Stroke123 Investigators and AuSCR. Multicenter, Prospective, Controlled, Before-and-After, Quality Improvement Study (Stroke123) of Acute Stroke. *Stroke* 2019; 50:1525–1530. <https://doi.org/10.1161/STROKEAHA.118.023075>
- Cheung NW, Campbell L, Fulcher G, McElduff P, Depczynski B, Acharya S, Carter J, Champion B, Chen R, Chippis DR, Flack JR, Kinsella J, Layton M, McLean M, Moses RG, Park K, Poynten A, Pollock C, Scadden D, Tonks K, Webber M, White C, Wong VV, **Middleton S**. Routine glucose assessment in the emergency department for detecting unrecognised diabetes: a cluster randomised trial. *Medical Journal of Australia* 2019; 211(10):454–459. <https://doi.org/10.5694/mja2.50394>

Research Publications

PEER-REVIEWED PUBLICATIONS

NRI staff (current and past) in bold

- Craig LE**, **Middleton S**, Hamilton H, Cudlip F, Swatzell V, Alexandrov AV, Lightbody E, Watkins C, Philip S, Cadilhac DA, **McInnes E**, **Dale S**, Alexandrov AV. Does the Addition of Non-Approved Inclusion and Exclusion Criteria for rtPA Impact Treatment Rates? Findings in Australia, the UK, and the USA. *Interventional Neurology* 2019;8(1):1–12. <https://doi.org/10.1159/000493020>
- 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*. Published online 23 August 2019. <https://doi.org/10.1016/j.jhin.2019.08.016>
- Kilkenny MF, Kim J, Andrew NE, Sundararajan V, Thrift AG, Katzenellenbogen JM, Flack F, Gattellari M, Boyd JH, Anderson P, Lannin NA, Siphthorp M, Chen Y, Johnston T, Anderson CS, **Middleton S**, Donnan GA, Cadilhac DA. Maximising data value and avoiding data waste: a validation study in stroke research. *Medical Journal of Australia* 2019; 210(1):27–31. <https://doi.org/10.5694/mja2.12029>
- Latimer S, Chaboyer WP, Thalib L, **McInnes E**, Bucknall T, Gillespie BM. Pressure injury prevalence and predictors among older adults in the first 36-hours of hospitalisation. *Journal of Clinical Nursing* 2019; 00:1–9. <https://doi.org/10.1111/jocn.14967>
- Martinez-Garduno C**, Rodgers J, **Phillips R**, **Gunaratne AW**, Drury P, **McInnes E**. The Surgical Patients' Pressure Injury Incidence (SPPII) study: a cohort study of surgical patients and processes of care. *Wound Practice and Research* 2019; 27(2):120–128. <https://doi.org/10.33235/wpr.27.2.86-94>
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- Minhas J, Wang X, Lavados PM, Moullaali T, Arima H, Billot L, Hackett ML, Olavarria V, **Middleton S**, Pontes-Neto OM, de Silva A, Lee T, Pandian J, Mead G, Watkins C, Chalmers J, Anderson CS, Robinson T on behalf of the HeadPoST Investigators. Blood pressure variability and outcome in acute ischemic and hemorrhagic stroke: a post hoc analysis of the HeadPoST study. *Journal of Human Hypertension* 2019; 33(5):411–418. doi: 10.1038/s41371-019-0193-z
- Muñoz-Venturelli P, Li X, **Middleton S**, Watkins C, Lavados PM, Olavarria V, Brunser A, Pontes-Neto OM, Santos T, Arima H, Billot L, Hackett ML, Song L, Robinson T, Anderson CS. Impact of evidence-based stroke care on patient outcomes: a multilevel analysis of an international study. *Journal of The American Heart Association (JAHA)* 2019; 8:e012640. <https://doi.org/10.1161/JAHA.119.012640>
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- Riegel B, Dunbar SB, Fitzsimons D, Freedland KE, Lee CS, **Middleton S**, Stromberg A, Vellone E, Webber D, Jaarsma T. Self-care research: Where are we now? Where are we going? *International Journal of Nursing* 2019. Published online 23 August 2019. <https://doi.org/10.1016/j.ijnurstu.2019.103402>

Research Publications

PEER-REVIEWED PUBLICATIONS

NRI staff (current and past) in bold

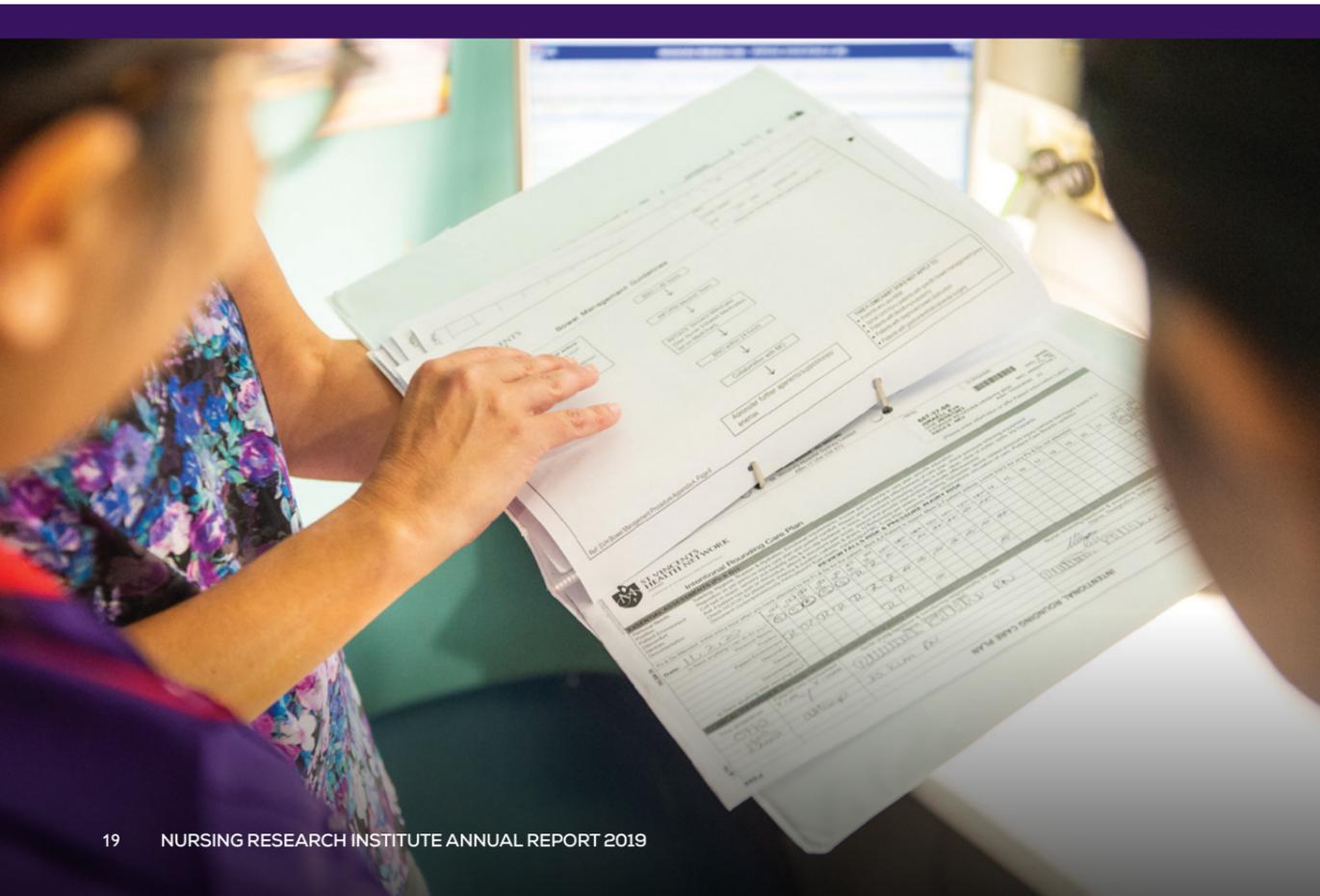
18. Rogers JM, Duckwork J, **Middleton S**, Steenbergen V, Wilson PH. Elements virtual rehabilitation improves motor, cognitive, and functional outcomes in adult stroke: evidence from a randomized controlled pilot study. *Journal of NeuroEngineering and Rehabilitation* 2019; 16:56. <https://doi.org/10.1186/s12984-019-0531-y>
19. Rogers JM, Bechara J, **Middleton S**, Johnstone SJ. Acute EEG patterns associated with transient ischemic attack. *Clinical EEG & Neuroscience* 2019; 50(3):196–204. <https://doi.org/10.1177/1550059418790708>
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22. Ski C, van der Wal M, Le Grande M, van Veldhuisen D, Lesman-Leegte I, Thompson D, **Middleton S**, Cameron J, Jaarsma T. Patients with heart failure with and without a history of stroke in the Netherlands: a secondary analysis of psychosocial, behavioural and clinical outcomes up to three years from the COACH trial. *BMJ Open* 2019; 9:e025525. doi: 10.1136/bmjopen-2018-025525
23. Tavender E, Babl FE, **Middleton S**. A primer for clinical researchers in the emergency department: Part 8. Implementation Science: An introduction. *Emergency Medicine Australasia (EMA) Journal* 2019; 31:332–338. <https://doi.org/10.1111/1742-6723.1329>

Research Publications

PUBLISHED CONFERENCE ABSTRACTS

Presenting author / NRI staff (current and past) in bold

1. Bernhardt J, Churilov L, Langhorne P, Pandian J, Dewey H, Srikanth V, English C, Moodie M, **Middleton S**, Thrift A, et al. Determining optimal early rehabilitation after Stroke (AVERT DOSE). *International Journal of Stroke* 2019; 14(IS):13. <https://doi/pdf/10.1177/1747493019858233>
2. Bernhardt J, Churilov L, Langhorne P, Pandian J, Dewey H, Shrikanth V, English C, Moodie M, **Middleton S**, et al. on behalf of AVERT Dose Trialist Collaboration. Trial update 2019: Determining optimal early rehabilitation after stroke (AVERT Dose). *European Stroke Journal* 2019; 4(IS):816. AS36–071. <https://doi.org/10.1177/2F2396987319848124>
3. Bladin C, Cheung NW, Dewey H, Churilov L, **Middleton S**, Thijs V, Ekinici E, Levi C, Lindley RI, Donnan GA, Parsons M, Muller C. Ongoing Clinical Trial: Treatment with exenatide in acute ischemic stroke (TEXAIS) Trial: Prospective, randomised, open label, blinded end-point study of exenatide vs. standard care in post stroke hyperglycaemia. *Stroke* 2019; 50(1):ATP285. https://doi.org/10.1161/str.50.suppl_1.TP285
4. Bladin C, Cheung NW, Dewey H, Churilov L, **Middleton S**, Thijs V, Ekinici E, Levi C, Lindley RI, Donnan GA, Parsons M, Muller C. Treatment with exenatide in acute ischemic stroke (TEXAIS) Trial: Prospective, randomised, open label, blinded end-point study of exenatide vs. standard care in post stroke hyperglycaemia. *European Stroke Journal* 2019; 4(IS):816. AS36–074. <https://doi.org/10.1177/2F2396987319848124>
5. Cadilhac DA, Anderson C, **Middleton S**, Grimley R, Donnan G, Hill K, Faux S, Breen S et al. 10 years old: Australian Stroke Clinical Registry. *International Journal of Stroke* 2019 14(IS):8. <https://doi/pdf/10.1177/1747493019858233>
6. Cadilhac DA, Grimley R, Bladin C, Donnan GA, Hill K, Levi C, **Middleton S**, Anderson CS, Lannin NA, Kilkenny MF on behalf of AuSCR consortium partners and Stroke 123 investigators. Ambulance service use and associations with hospital care and 90-day outcomes for acute stroke: The Australian Stroke Clinical Registry (AuSCR). *Stroke* 2019; 50(1):ATP283. https://doi.org/10.1161/str.50.suppl_1.TP283
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8. Janssen H, Shakespeare D, Luker J, Denham A, McCluskey A, Bernhardt J, Ada L, Churilov L, **Middleton S**, Nilsson M, et al. Altering the rehabilitation environment to improve stroke survivor activity (AREISSA): Patient perception of activity during environmental enrichment. *International Journal of Stroke* 2019; 14(IS): 15. <https://doi/pdf/10.1177/1747493019858233>
9. Janssen H, Shakespeare D, Luker J, Denham A, McCluskey A, Bernhardt J, Ada L, Churilov L, **Middleton S**, et al. Altering the rehabilitation environment to improve stroke survivor activity (AREISSA trial): Staff experience of implementing environmental enrichment. *International Journal of Stroke* 2019; 14(IS):15. <https://doi/pdf/10.1177/1747493019858233>
10. Janssen H, Ada L, Bernhardt J, Churilov L, **Middleton S**, Nilsson M, Pollack M, Spratt N on behalf of the AREISSA Trial collaboration. Altering the rehabilitation environment to improve stroke survivor activity (AREISSA Trial): A patient-driven model of environmental enrichment. *European Stroke Journal* 2019; 4(IS):56. AS04–040. <https://doi.org/10.1177/2F2396987319845560>
11. Jones B, Dale S, McInnes E, Fasugba O, Burrows C, John M, Doncillo M, Wright S, Lueck C, D'Este C, **McElduff B, Middleton S**. Acute Stroke Nurses improve Code Stroke activation and ED processes of care: Results of Code Stroke 2.0 Feasibility Study. *International Journal of Stroke* 2019; 14(2S):13. <https://doi.org/10.1177/1747493019862960>
Best Nursing Abstract Award
12. Jones B, Dale S, McInnes E, Fasugba O, Burrows C, John M, Doncillo M, Wright S, Lueck C, D'Este C, **McElduff B, Middleton S**. Code Stroke 2.0 Feasibility Study Protocol. *International Journal of Stroke* 2019, 14(2S):22. <https://doi.org/10.1177/1747493019862960>
13. McInnes E, Dale S, Craig LE, Schadewaldt V, Cadilhac DA, Grimshaw J, Considine J, D'Este C, Cheung NW, Levi C, Gerraty R, **Middleton S**. Improving stroke care in the emergency departments (T³ trial) – Results from a process evaluation. *International Journal of Stroke* 2019; 14(IS):14. <https://doi/pdf/10.1177/1747493019858233>
14. McInnes E, Dale S, Craig LE, Schadewaldt V, Cadilhac DA, Grimshaw J, Considine J, D'Este C, Cheung NW, Levi C, Gerraty R, **Middleton S** on behalf of the T³ Trial investigators. Clinician behaviour change in the emergency department (T³ Trial) – findings from a mixed method process evaluation. *European Stroke Journal* 2019; 4(1S):250. AS02–022. <https://doi.org/10.1177/2396987319845581>
15. Ouyang M, Billot L, Song L, Hackett ML, Lavados PM, Olavarria VV, Munoz-Venturelli P, **Middleton S**, Pontes-Neto OM, Lee TH, Watkins C, Robinson T, Anderson CS. Urinary catheterisation and clinical outcomes in acute stroke patients: An international multicenter study. *European Stroke Journal* 2019; 4(IS):31. AS14–024. <https://doi.org/10.1177/2F2396987319845560>



PUBLISHED CONFERENCE ABSTRACTS

Presenting author / **NRI staff (current and past)** in bold

16. Ouyang M, Boaden E, Arima H, Lavados PM, Billot L, Hackett ML, Olavarria VV, Munoz-Venturelli P, Song L, Rogers K, **Middleton S**, et al. Dysphagia screening and risks of pneumonia and adverse outcomes in acute stroke: an international multicentre study. *European Stroke Journal* 2019; 4(1S):31. AS14-023. <https://doi.org/10.1177%2F2396987319845560>
17. Ouyang M, Song L, Billot L, Hackett ML, Lavados PM, Olavarria VV, Munoz-Venturelli P, **Middleton S**, Pontes-Neto OM, Lee TH, Watkins C, Robinson T, Anderson CS. Effect of combined aspirin and clopidogrel versus aspirin alone on functional outcomes and recurrence in acute ischemic stroke patients. *European Stroke Journal* 2019; 4(1S):68. AS09-009. <https://doi.org/10.1177%2F2396987319845560>
18. Rai T, Godecke E, Armstrong E, Cadilhac DA, Ciccone N, Rose M, Holland A, Whitworth A, Ellery F, Hankey G, **Middleton S**, Bernhard J on behalf of VERSE Collaborators. Fewer but longer treatment sessions for aphasia are associated with better recovery in the very early rehabilitation in speech (VERSE) clinical trial cohort. *European Stroke Journal* 2019; 4(1S):32. AS13-030. <https://doi.org/10.1177%2F2396987319845560>
19. Ramanathan S, Reeves P, Deeming S, Bernhardt J, Nilsson M, Cadilhac DA, Walker FR, Carey L, **Middleton S**, Lynch E, Searles A. Applying an impact assessment framework to a Centre for Research Excellence in Stroke Rehabilitation and Brain Recovery. *International Journal of Stroke* 2019; 14(2S):13. <https://doi.org/10.1177/1747493019862960>

Conferences

NRI staff in bold / Presenting author underlined

INTERNATIONAL STROKE CONFERENCE, HONOLULU, USA, 6-8 FEBRUARY 2019

1. Bladin C, Cheung W, Dewey H, Churilov L, **Middleton S**, Thijs V, Levi C, Lindley R et al. Ongoing clinical trial: *Treatment with Exenatide in Acute Ischaemic Stroke (TEXAIS) Trial: Prospective, randomized, open label, blinded end-point study of exenatide vs standard care in post stroke hyperglycaemia*. [Poster]
2. Cadilhac DA, Grimley R, Bladin C, Donnan GA, Hill K, Levi C, **Middleton S**, Anderson CS, et al. on behalf of the AuSCR consortium partners and Stroke 123 investigators. *Ambulance service use and associations with hospital care and 90-day outcomes for acute stroke: Australian Stroke Clinical Registry (AuSCR)*. [Poster]

5TH EUROPEAN STROKE ORGANISATION CONFERENCE, MILAN, ITALY, 22-24 MAY 2019

3. Bernhardt J, Churilov L, Langhorne P, Pandian J, Dewey H, Shrikanth V, English C, Moodie M, **Middleton S** et al. on behalf of the AVERT Dose Trialist Collaboration. *Ongoing trial update 2019: Determining optimal early rehabilitation after stroke (AVERT Dose)*. [Poster]
4. Bladin C, Cheung N, Dewey H, Churilov L, **Middleton S**, Thijs V, Ekinici E, Levi C et al. Treatment with exenatide in acute ischemic stroke (TEXAIS) *Trial: Prospective, randomised, open label, blinded end-point study of exenatide vs. standard care in post stroke hyperglycaemia*. [Poster]
5. Cadilhac DA, **Middleton S**, Anderson C, Breen S, Kilkenny MF, Kim J, Grimley R, Faux SG et al. on behalf of the AuSCR consortium. *10 years of implementing the Australian Stroke Clinical Registry: Adapting to changing waistlines and hairstyles*. [Poster]
6. Janssen H, Ada L, Bernhardt J, Churilov L, **Middleton S**, Nilsson M, Pollack M, Spratt N on behalf of the AREISSA Trial collaboration. *Altering the rehabilitation environment to improve stroke survivor activity (AREISSA Trial): A patient-driven model of environmental enrichment*. [Presentation]
7. **McInnes E**, Dale S, Craig LE, Schadowaldt V, Cadilhac DA, Grimshaw J, Considine J, D'Este C, Cheung W, Levi C, Gerraty R, **Middleton S** on behalf of T³ Trial investigators. *Clinician behaviour change in the emergency department (T³ Trial) – findings from a mixed methods process evaluation*. [Poster]
8. Ouyang M, Boaden E, Arima H, Lavados P, Billot L, Hackett ML, Olavarria VV, Munoz-Venturelli P, Song L, Rogers K, **Middleton S**, et al. *Dysphagia and adverse outcomes in acute stroke: An international multicentre study*. [Presentation]
9. Ouyang M, Song L, Billot L, Hackett ML, Lavados PM, Olavarria VV, Munoz-Venturelli P, **Middleton S** et al. *Effect of combined aspirin and clopidogrel versus aspirin on functional outcomes and recurrence in acute ischemic stroke patients*. [Presentation]
10. Ouyang M, Billot L, Song L, Hackett M, Lavados PM, Olavarria VV, Munoz-Venturelli P, **Middleton S** et al. *Urinary catheterisation and clinical outcomes in acute stroke patients: An international multicentre study*. [Presentation]
11. Rai T, Godecke E, Armstrong E, Cadilhac DA, Ciccone N, Rose M, Holland A, Whitworth A, Ellery F, Hankey G, **Middleton S**, Bernhard J on behalf of the VERSE Collaborators. *Fewer but longer treatment sessions for aphasia are associated with better recovery in the very early rehabilitation in speech (VERSE) clinical trial cohort*. [Presentation]

KNOWLEDGE UTILIZATION COLLOQUIUM, MONTEBELLO, CANADA, 25-28 JUNE 2019

12. **McInnes E**, Harvey G, Hiller J, Phillips R, Page T, Wiechula R. *Factors influencing purchasing and disinvestment from wound care products: A qualitative study* [Poster]

JOANNA BRIGGS REGIONAL SYMPOSIUM EVIDENCE BASED HEALTHCARE, SYDNEY, 28 JUNE 2019

13. **Gawthorne J**, Stevens J, Welch S, Faux S, **Middleton S**, **McInnes E**. *Can emergency nurses safely and effectively insert fascia iliaca blocks in patients with a fractured neck of femur*. *Best Poster*
14. **Middleton S**. *Knowledge implementation*.

SMART STROKES CONFERENCE, HUNTER VALLEY, 8-9 AUGUST 2019

15. Bernhardt J, Churilov L, Langhorne P, Pandian J, Dewey H, Srikanth V, English C, Moodie M, **Middleton S** et al. *Ongoing trial: Determining optimal early rehabilitation after Stroke (AVERT DOSE)*. [Presentation]
16. Cadilhac DA, Anderson C, **Middleton S**, Grimley R, Donnan G, Hill K, Faux S, Breen S et al. *10 years old: The Australian Stroke Clinical Registry*. [Presentation]



17. **Janssen H**, Shakespeare D, Luker J, Denham A, McCluskey A, Bernhardt J, Ada L, Churliov L, **Middleton S** et al. *Altering the rehabilitation environment to improve stroke survivor activity (AREISSA trial): Staff experience of implementing environmental enrichment.* [Presentation]

18. **Janssen H**, Shakespeare D, Luker J, Denham A, McCluskey A, Bernhardt J, Ada L, Churliov L, **Middleton S** et al. *Altering the rehabilitation environment to improve stroke survivor activity (AREISSA): Patient perception of activity during environmental enrichment.* [Presentation]

19. **McInnes E, Dale S, Craig LE, Schadowaldt V**, Cadilhac DA, Grimshaw J, Considine J, D'Este C, Cheung NW, Levi C, Gerraty R, **Middleton S**. *Improving stroke care in the emergency departments (T³ trial) – Results from a process evaluation.* [Presentation]

3RD INTERNATIONAL NEUROSCIENCE NURSING RESEARCH SYMPOSIUM, AUSTIN, USA, 24–25 AUGUST 2019

20. **Sanchez AJ**, Smith S, **Martinez-Garduno C, Fasugba O, Coughlan K**, Ortega J, McInnes E, Choy NL, **Middleton S**. *Cross-sectional view of long-term stroke survivors and caregivers' self-efficacy, functional independence, and burden from a cluster-RCT.* [Poster]

STROKE SOCIETY AUSTRALASIA SCIENTIFIC CONFERENCE, CANBERRA, 11–13 SEPTEMBER 2019

21. **Jones B, Dale S, McInnes E, Fasugba O**, Burrows C, John M, Doncillo M, Wright S, Lueck C, D'Este C, **McElduff B, Middleton S**. *Acute Stroke Nurses improve Code Stroke activation and ED processes of care: Results of Code Stroke 2.0 Feasibility Study. Best Nursing Abstract Award*

22. **Jones B, Dale S, McInnes E, Fasugba O**, Burrows C, John M, Doncillo M, Wright S, Lueck C, D'Este C, **McElduff B, Middleton S**. *Code Stroke 2.0 Feasibility Study Protocol.* [Poster]

23. **Ramanathan S**, Reeves P, Deeming S, Bernhardt J, Nilsson M, Cadilhac DA, Walker FR, Carey L, **Middleton S**, Lynch E, Searles A. *Applying an impact assessment frame work to a Centre for Research Excellence in Stroke Rehabilitation and Brain Recovery.* [Presentation]

AUSTRALIAN CLINICAL TRIALS ALLIANCE INTERNATIONAL CONFERENCE, SYDNEY, 2–5 OCTOBER 2019

24. **Cadilhac DA**, Kilkenny MF, Breen S, Anderson CS, Wong D, Lannin NA, **Middleton S** on behalf of the AuSCR consortium. *Experience in Australian Stroke Clinical Registry for Clinical Trials.* [Poster]

25. **McInnes E, Dale S, Craig LE, Schadowaldt V**, Cadilhac DA, Grimshaw J, Considine J, D'Este C, Cheung NW, Levi C, Gerraty R, **Middleton S**. *Mixed methods process evaluation of a behaviour change intervention in the ED (T³ Trial): Lessons for implementation trials.* [Poster]

26. **Sharplin G**, Rickard C, Webb Steve, Phillips J, **Middleton S**, Leslie G, Gray R, Bonner R, Whitehead L, Yates P, **Eckert M**. *Establishing an Australian and New Zealand nursing and midwifery clinical trials network.* [Poster]

WORLD CONGRESS OF INTENSIVE CARE, MELBOURNE, 14–18 OCTOBER 2019

27. **Whittam S**, Torning N, Patching J. *Senior Registered Nurses Working with New Graduate Nurses in the Intensive Care Department: A Narrative Inquiry.* [Presentation]

AUSTRALASIAN NEUROSCIENCE NURSES' ASSOCIATION CONFERENCE, WELLINGTON, NZ, 17–18 OCTOBER 2019

28. **Dale S, McInnes E, Craig LE, Schadowaldt V**, Cadilhac DA, Grimshaw J, Considine J, D'Este C, Cheung NW, Levi C, Gerraty R, **Middleton S**. *Why was it hard to implement practice change for management of stroke in the ED (T³ Trial)? Results of a process evaluation.* [Presentation]

INFECTION PREVENTION AND CONTROL INTERNATIONAL CONFERENCE, PERTH, 17–20 NOVEMBER 2019

29. **Fasugba O**, Mitchell BG, **McInnes E**, Cheng A, Koerner J, **Cheng H, Middleton S**. *Systematic review of effect of increased fluid intake for the prevention of urinary tract infection.* [Poster]

11TH HEALTH SERVICES POLICY RESEARCH CONFERENCE, AUCKLAND, NZ, 4–6 DECEMBER 2019

30. **Boland L**, Brosseau L, Caspar S, Graham ID, Hutchinson AM, Kothari A, McNamara K, **McInnes E**, Stacey D. *Reporting health research translation and impact in the curriculum vitae: a survey of an international cohort.* [Presentation]

31. **McInnes E, Dale S, Craig LE, Schadowaldt V**, Cadilhac DA, Grimshaw J, Considine J, D'Este C, Cheung NW, Levi C, Gerraty R, **Middleton S**. *The value of implementation theory for changing practice in the ED (T³ Trial): Findings from a process evaluation.* [Presentation]

Presentations at SVHS and SVHM

NRI SEMINARS AT SVHS HOSTED BY ST VINCENT'S CENTRE FOR APPLIED MEDICAL RESEARCH

Dr Mahnaz Fanaian, Lecturer, ACU School of Nursing, Midwifery & Paramedicine NSW
Treatment of personality disorder using whole of service stepped care approach: A cluster-RCT.

Dr Jane Carland, Senior Hospital Scientist, St Vincent's Hospital Sydney
Education for vancomycin – what works?

Ms Gladis Kabil, Lecturer, ACU School of Nursing, Midwifery & Paramedicine NSW
Emergency nurses' experience of implementation of early goal-directed resuscitation therapy in the management of sepsis.

Ms Susan Whittam, Clinical Nurse Educator ICU, St Vincent's Hospital Sydney
Narratives of Experience: senior RNs working with new graduate nurses in the intensive care unit.

Mrs Julie Gawthorne, Clinical Nurse Consultant, St Vincent's Hospital Sydney
Fascia iliaca blocks compared to medical practitioners in patients with a fractured neck of femur.

Dr Oyebola Fasugba, Research Officer, NRI
Code Stroke 2.0.

NRI SEMINARS AT SVHM

McInnes E. *The importance of nursing research.* Senior Nurses Advisory Forum

McInnes E. *The NRI and implementation research.* Open seminar

SVHS MEDICAL GRAND ROUNDS 23 JULY 2019

Middleton S, Dale S, Gawthorne J, Rihari-Thomas J. *Implementation research at the NRI.*

SVHM RESEARCH WEEK 5–9 AUGUST 2019

Coventry A. *End-of-life care in the ICU: A qualitative meta-synthesis investigating the experiences and perceptions of the patient's family.* [Presentation]

Fasugba O. *Meatal cleaning with chlorhexidine for the prevention of catheter-associated urinary tract infections.* [Poster]

Fasugba O. *A systematic review of the effect of increased fluid intake for the prevention of urinary tract infections.* [Poster]

McInnes E. *Clinician behaviour change in the emergency department (T³ trial) – findings from a mixed methods process evaluation.* [Presentation]

McInnes E. *Factors influencing purchasing and disinvestment from wound care products: a qualitative study of hospital executives and senior clinicians.* [Presentation]

ST VINCENT'S CAMPUS SYDNEY RESEARCH WEEK 23–27 SEPTEMBER 2019

Dale S. *Fast Forward: Code Stroke 2.0 – Bringing the stroke unit to the patient.*

Gawthorne J. *Fast Forward: Can emergency nurses safely and effectively insert fascia iliaca blocks in patients with a fractured neck of femur.*

Middleton S. *Overview of SPHERE Implementation Science Platform.*

Whittam S. *Fast Forward: Senior Registered Nurses working with new graduate nurses in Intensive Care Unit: A narrative inquiry.*

Lectures and Workshops National and International

ACUTE STROKE FORUM, SYDNEY, 9 APRIL 2019

Middleton S. *Data and benchmarking NSW progress: Update and challenges.*

NOTRE DAME BACHELOR OF NURSING STUDENTS, SYDNEY, 17 SEPTEMBER 2019

Dale S. *Translating evidence into practice.*

MARIDULU BUDYARI GUMAL SPHERE IMPROVEMENT WORKSHOP, SYDNEY, 14 NOVEMBER 2019

Middleton S. *Data driven healthcare and the SPHERE implementation science platform.*

NATIONAL STROKE DATA AND QUALITY IMPROVEMENT WORKSHOP, SYDNEY, 28 NOVEMBER 2019

Middleton S. *Co-chair session: Health care improvement initiatives.*

UNIVERSITY OF TECHNOLOGY SYDNEY NURSING STUDENTS' GRADUATION, SYDNEY, 7 MAY 2019

Middleton S. *Graduation occasional address.*

VICTORIAN GASTROENTEROLOGY NURSES ASSOCIATION, MELBOURNE, 9 OCTOBER 2019

McInnes, E. *The value of nursing research.*

VICTORIAN ASSOCIATION OF RESEARCH NURSES PROFESSIONAL DEVELOPMENT DAY, MELBOURNE, 25 OCTOBER 2019

McInnes, E and Coughlan K. *Implementation research and methods – from concept to translation.*

MINORITY HEALTH DISPARITIES INTERNATIONAL RESEARCH TRAINING DAY, MIAMI, USA, 1 FEBRUARY 2019

Middleton S. *Is it possible to change clinician behaviour and implement evidence-based care?*

NURSING GRAND ROUNDS, UNIVERSITY OF TENNESSEE, MEMPHIS, USA, 22 FEBRUARY 2019

Middleton S. *Why should randomised trials include process evaluations?*

BUCKINGHAM NEW UNIVERSITY, UK (SKYPE), 12 DECEMBER 2019

Dale S. *Getting evidence into practice.*

Committee and Professional Affiliations

Director, Professor Sandy Middleton

Professional Membership

- + Fellow, Australian College of Nursing
- + Fellow, American Academy of Nursing
- + Fellow, European Stroke Organisation
- + Fellow, Australian Academy of Health and Medical Sciences
- + Member, American Heart Association
- + Member, Australasian Association for Quality in Health Care
- + Member, Australian Clinical Trials Alliance
- + Member, Health Services Research Association
- + 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

Committees and Boards

SVHA

- + 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

NRI

- + Member, NRI Steering Committee
- + Member, NRI Management Committee

External

- + Member, National Health and Medical Research Council (NHMRC) Health Translation Advisory Committee (HTAC)
- + 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, SPHERE Translational Research Fellowship Committee
- + Member, SPHERE Translation Committee
- + Member, SPHERE Clinical Trials Conduct: Clinician, Public and Patient Involvement Steering Committee
- + 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, American Heart Association Nursing Symposium Scientific Committee
- + Member, World Stroke Organization Education Committee

Committee and Professional Affiliations

- + Member, Australian Academy of Health and Medical Sciences Fellowship Selection Committee
- + Member, Living Evidence Business Case Development Steering Committee
- + Member, Australian Commission on Safety and Quality in Health Care, Comprehensive Care Nursing and Midwifery Advisory Group
- + Member, Quality Stroke Service Awards Subcommittee

Deputy Director, Professor Elizabeth McInnes

Professional Affiliations

- + Author and Editor, Cochrane Wounds Group
- + Member, Australian Clinical Trials Association
- + 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, International Knowledge Utilization Colloquium

Committees and Boards

SVHA

- + Member, St Vincent's Health Australia, Research Council
- + Member, St Vincent's Hospital Melbourne, Senior Nurses Advisory Committee
- + Member, St Vincent's Hospital Melbourne, Executive Committee
- + Member, St Vincent's Hospital Melbourne, Research Advisory Group
- + Member, St Vincent's Health Network Sydney, Nursing Advisory Council
- + Member, St Vincent's Health Network Sydney, Research Advisory Council

NRI

- + Member, NRI Steering Committee
- + Member, NRI Management Committee

Australian Catholic University

- + Deputy Chair, School of Nursing, Midwifery and Paramedicine Research and Research Training Committee
- + Member, ACU Faculty of Health Science Research and Research Training Committee
- + Member, Master of Health Science Research Course Committee

External

- + Member, SPHERE Nursing and Midwifery Academy
- + Member, SPHERE Translational Research Committee
- + Member, SPHERE Musculo-skeletal Clinical Advisory Group
- + Member, Australian Health Research Alliance, National Wound Care Alliance, Surgical wound and Pressure injury guidelines project working groups



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