

Australian and New Zealand Intensive Care Research Centre Annual Report 2023





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It is with great pleasure that I introduce the 2023 annual report of the ANZ Intensive Care Research Centre (ANZIC-RC), and congratulate everyone working in, or collaborating with, our Centre.

2023 was another remarkable year. For the second year in a row, the ACTA Clinical Trial of the Year was awarded to an ANZIC-RC coordinated trial. In 2023 it was awarded to the TEAM trial (Hodgson, Bailey, Bellomo, Broadley, Higgins, Serpa Neto, Nichol, Presneill, Webb, Young, et al), and received by Carol Hodgson in November 2023. TEAM, a multicentre, multinational and multidisciplinary randomised controlled trial, provided evidence for the provision of rehabilitation and mobilisation of critically ill, mechanically ventilated patients, addressing a crucial evidence gap regarding ICU-acquired weakness. TEAM was published in the *NEJM* in 2022.

In 2023, the results of two ANZIC-RC coordinated trials were published in the *NEJM* and concurrently presented at CCR in Belfast, TAME (Mild Hypercapnia or Normocapnia after Out-of-Hospital Cardiac Arrest) and PATCH (Prehospital Tranexamic Acid for Severe Trauma). In total in 2023 the ANZIC-RC published 300+ papers.

During 2023, the ANZIC-RC led 15 ongoing NHMRC/MRFF-funded randomised trials in different aspects of intensive care medicine. Furthermore, during 2023 the ANZIC-RC (as the coordinating centre) received two new MRFF grants: one for the National Intensive Care Data Infrastructure Initiative (NICE-Data) (\$2.5M, CIA Hodgson) and the other for a randomised controlled trial, Driving pressure versus limited pressure ventilation for acute respiratory failure (DRIVE-RCT) (\$1.6M, CIA Hodgson).

I would like to thank our whole team of wonderful staff, adjuncts, students, affiliates and visiting researchers for their plain hard work and dedication to our Centre and its many programs.

*D. Jamie Cooper AO
Sir John Monash Distinguished Professor
Co-Director ANZIC-RC*



The Australian and New Zealand Intensive Care Research Centre (ANZIC-RC) supports the design, funding and conduct of large, randomised trials answering key clinical questions in intensive care medicine. The findings have improved clinical care and outcomes for ICU patients in Australia and internationally, and lowered health care costs. The ANZIC-RC is also a national teaching centre for clinician researchers at all levels in intensive care.

Established in 2006 with a National Health and Medical Research Council Enabling Grant and Monash University support, the ANZIC-RC is in the Monash School of Public Health and Preventive Medicine. It is located within the Alfred Research Alliance, adjacent to The Alfred Hospital, Melbourne. The ANZIC-RC offers a range of services, from research advice to complete randomised trial management, to clinical registries.

The aims of the ANZIC-RC are to:

- Conduct high-impact, large-scale, investigator-initiated clinical trials designed to determine best and most cost-effective practice in Intensive Care Medicine (ICM)
- Increase the quality of clinical trial design and biostatistical analysis in this field
- Be readily accessible to all Australian and New Zealand clinician-researchers in critical care
- Expand the national and international reach of large Australian and New Zealand led trials
- Introduce systems to integrate research results into clinical practice by promulgating research-based practice guidelines
- Develop integrated clinical research programs that provide the training ground for future clinical trialists in the field of ICM
- Encourage and support clinician researchers in research theory, study design, study conduct, data analysis and scientific writing.



Congratulations to our team members who received awards in 2023 including:

- ACTA Trial of the Year awarded to **TEAM** (CIA **Carol Hodgson, Michael Bailey, Rinaldo Bellomo, Tessa Broadley, Lisa Higgins, Ary Serpa Neto, Alistair Nichol, Jeffrey Presneill, Steve Webb, Paul Young**, et al), and received by Carol Hodgson in Nov 2023. TEAM, a multicentre, multinational and multidisciplinary RCT, provided evidence for the provision of rehabilitation and mobilisation of critically ill, mechanically ventilated patients, addressing a crucial evidence gap regarding ICU-acquired weakness.
- **Carol Hodgson** received the award for the Alfred Research Alliance's Top Clinical Paper for leading the TEAM trial, which published its primary findings in *NEJM*.
- **Carol Hodgson** received the 2023 American Thoracic Society (ATS) Assembly on Critical Care Mid-Career Award in Washington, DC, USA, for significant and meaningful contributions to the ATS Critical Care Assembly in research, clinical care, quality improvement, teaching, mentoring, promoting diversity, advocacy, and service.
- **Rinaldo Bellomo** was officially named a Highly Cited (HiCi) Researcher for the 9th time in a row. Rinaldo is among an elite few recognized for exceptional research performance demonstrated by production of multiple highly cited papers, those that rank in the top 1% by citations for field and year in Web of Science. The Highly Cited Researchers™ list from Clarivate identifies individual researchers who have demonstrated significant and broad influence in their field.
- **Emma Ridley** won the Monash University School of Public Health and Preventive Medicine Early Career Research Excellence Award.
- **Chris Nickson** won the ANZ Association for Health Professional Educators (ANZAHPE) 2023 award for outstanding achievement in Health Professional Education in Australasia, New Zealand and Internationally.
- University College Dublin Research Impact Case Study Competition Runner-up ICC-CTN ABI Programme: Determining Optimal Clinical Practice to Improve ICU Patient Outcomes led by **Alistair Nichol**.
- **Alistair Nichol** was an author 'Development of the Consumer Involvement & Engagement Toolkit: a digital resource to build capacity for undertaking patient-centred clinical trials in Australia' awarded a Highly Commended in Best in Practice Paper, CT:IQ/ACTA Public Health Research & Practice Excellence Awards.
- PhDs conferred: **Ashwin Subramaniam** and **Jenna Lang**, and PhD graduation: **Stephanie Hunter**.



Acute Brain Injury Program

The ANZIC-RC Acute Brain Injury Program has seen tremendous success over the last 12 months. More specifically, the PRECISION-TBI project continues to expand, with additional sites in South Australia and NSW, resulting in a total of 10 sites currently recruiting participants across Australia. The study team has also established an exciting new collaboration with the Australian Living Evidence Collaboration (Monash University), culminating in a grant application to the MRFF Mission for TBI to develop a national, living clinical guideline to support consistent best-practice care in the acute hospital setting for moderate-to-severe traumatic brain injury (msTBI). In addition, four sub-studies were successfully embedded within the PRECISION-TBI framework, namely the Ketamine in Brain Injury open-label RCT, and polyol CSF biomarker project. The other two sub-studies underway are aimed at: (1) establishing a quality indicator set for the optimal management of msTBI in the Australian context; and, (2) developing novel artificial intelligence techniques for the analysis of computerised tomography images and prediction of outcome from msTBI.

The BONANZA-GT randomised controlled trial has also seen global expansion, and significant competitive grant success in Belgium (Belgian Health Care Knowledge Centre – INV21-1323), and Ireland (Health Research Board of Ireland – DIFA-2023-021). This international funding has allowed the initiation of study centres in these regions, along with planning for additional sites in the United Kingdom, Germany and France. BONANZA-GT has also met a key milestone with randomisation of 100 patients, and completion of a planned treatment separation analysis. These data have re-affirmed the validity of the study protocol, and have allowed for further refinement of the intervention. BONANZA-GT will see further substantial recruitment in 2024, with the opening of numerous additional sites. For further information please go to: www.monash.edu/medicine/sphpm/anzicrc/research/anzic-rc-acute-brain-injury-program



Lead:
Prof Andrew Udy

ECMO Program

In 2023, the ECMO Program of research experienced substantial growth. Two trials were awarded NHMRC/MRFF funding, including the RECOMMEND Platform trial embedded in the EXCEL Registry (MRFF \$2.9M CIA Prof Carol Hodgson), and Research Data Infrastructure Trial (NICE-Data; MRFF \$2.5M CIA Prof Carol Hodgson). Pilot study funding included for follow-up of ECMO survivors (ECMO-Prompt ICF \$39K CIA Dr Lisa Higgins), and Red Blood Cell Transfusion in ECMO (ROSETTA ANZSBT \$18K CIA Dr Hergen Buscher), and a study to use machine learning for risk prediction in VA-ECMO (ECMO-PAL MIME CIA Dr Andrew Stephens). For our current trials, we were delighted to finish recruitment for the BLENDER trial, and commence recruitment for REDEEM. Ethics approval was granted for ECMO-Prompt.

Several landmark publications were accepted in 2023 including reviews (ECMO for critically ill adults. *Cochrane Reviews*; ECPR for refractory cardiac arrest in Australia. *Med J Aust*); research articles (Smaller Return Cannula in VA ECMO Does Not Increase Hemolysis, *ASAIO J*; ECMO and ECPR research priorities in Australia. *Aus Crit Care*); and protocol papers (BLENDER Trial, *Crit Care Resusc*).

The second annual EXCEL Symposium was held in April, with Prof Eddy Fan from Toronto as keynote speaker. A highlight of the symposium was the presentation from an ICU survivor (www.monash.edu/medicine/sphpm/excel/survivor-stories). Their emotional story drew tears from the almost 200 attendees. The EXCEL Registry was further represented at the International ECMO Network Meeting in Barcelona, with registry and embedded trials making up a large portion of the program.

Our continuing and newly commenced postgraduate researchers are Alastair Brown and Vicki Papanikolaou. For further information please go to: www.monash.edu/medicine/sphpm/excel/



Co-Lead:
Prof Carol Hodgson



Co-Lead:
A/Prof Aidan Burrell

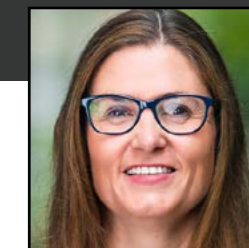
Health Economics Program

The ANZIC-RC Health Economics Program aims to promote the inclusion of economic analyses in intensive care clinical trials, develop standard methodology for economic evaluation alongside intensive care trials, and provide opportunities for mentoring and for health economics training relevant to critical care. In 2023, the Health Economics Program conducted a half-day health economics course alongside the ANZICS-CTG Annual Scientific Conference in Noosa. This course was attended by 31 clinicians and researchers, was very well received, with future courses currently being planned.

The health economics program published “Economic evaluations for intensive care unit randomised clinical trials (RCTs) in Australia and New Zealand: Practical recommendations for researchers” in *Australian Critical Care* in May 2023. Other key publications included the “Cost-effectiveness of a purpose-built ward environment and new allied health model of care for major trauma”, published in the *Journal of Trauma and Acute Care Surgery* in June 2023.

There are currently six PhD students conducting work within the health economics program, with projects ranging from the role of health economics in implementation, economic evaluations alongside RCTs, resource use before and after critical illness, and quality of life measurement following critical illness. Key publications from students during 2023 include “Psychometric properties of health-related quality of life instruments used in survivors of critical illness: a systematic review” published in *Quality of Life Research* by Shera De Silva. For further information please go to:

<https://www.monash.edu/medicine/sphpm/anzicrc/research/anzic-rc-health-economics-program>

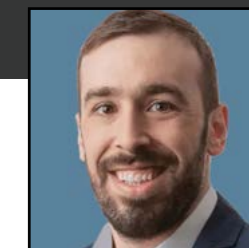


Lead:
Dr Lisa Higgins

Mechanical Ventilation Program

Mechanical ventilation plays a critical role in the management of critically ill patients. However, mechanical ventilation can also lead to complications such as ventilator-associated lung injury (VILI), and ventilator-induced diaphragm dysfunction (VIDD). Therefore, there is an urgent need to advance mechanical ventilation strategies to optimise patient outcomes, minimise complications, and improve quality of care. The Mechanical Ventilation Program, led by Dr Ary Serpa Neto, was developed to: 1) Conduct high quality, meaningful research that addresses the needs of consumers and generates new knowledge to impact global mechanical ventilation practice for critically ill patients; 2) Improve capacity and skill in mechanical ventilation research across Australia and New Zealand; and, 3) Mentor academic clinician researchers of all disciplines with an interest in mechanical ventilation.

The PHARLAP (Permissive Hypercapnia, Alveolar Recruitment and Low Airway Pressure - Randomised Controlled Trial) and the DRIVE (DRIVing PrEssure Limited Ventilation in Hypoxemic Respiratory Failure – Randomised Controlled Trial) trials are examples of studies conducted under the Mechanical Ventilation Program. Furthermore, the program has generated studies investigating various ventilation practices, including pressure support ventilation, assessment of respiratory effort (P0.1), intraoperative ventilation techniques, and the efficacy of prone positioning. These studies represent a comprehensive effort to explore and refine mechanical ventilation approaches, paving the way for improved patient care and outcomes. For further information on our projects and publications please go to: <https://www.monash.edu/medicine/sphpm/anzicrc/research/anzic-rc-mechanical-ventilation-program3>



Lead:
Dr Ary Serpa Neto

Nutrition Program

In 2023 there were 18 contributions to the scientific literature from the Nutrition Program. Recruitment was completed for Intensive Nutrition in Critically Ill Adults (INTENT), a prospective, parallel, randomised controlled trial in 240 critically ill adults from 23 hospitals in Australia and New Zealand. INTENT represents the first whole hospital nutrition intervention investigated in critically ill adults internationally. Also in 2023, \$1.4M of funding was received from the Medical Research Future Fund (MRFF) Clinician Researchers Initiative to support “A national platform for improving quality of nutrition care for critically ill adults and children”. Commenced in August 2023 in 53 adult and 10 paediatric hospitals, this project will inform and redesign new models of nutrition care for adults and children with critical illness. This project includes set up of the first dedicated consumer group for critical care nutrition nationally. Recruitment also commenced for the first pilot randomised controlled trial investigating a direct nutrition provision in critically ill patients with obesity.

PhD Candidate Clare Ferguson completed recruitment for ECMO-Nutrition, the largest observational study of nutrition provision in critically ill patients receiving ECMO in Australia and New Zealand, which is embedded in the EXCEL Registry. This study is also the first internationally to include data collection on nutrition in the post-ICU period of illness.

Lead of the Nutrition Program, Emma Ridley, was promoted to Associate Professor and received the Monash University School of Public Health and Preventive Medicine’s Excellence Award for an Early Career Researcher. Oana Tatucu, a Research Fellow in the Nutrition Program, was selected as 1 of 20 researchers globally to take part in an advanced clinical nutrition research training program by a major industry partner. For further information on our projects and publications please go to:

www.monash.edu/medicine/sphpm/anzicrc/research/anzic-rc-nutrition-program



Lead:
A/Prof Emma Ridley

Recovery Program

The ICU Recovery Program of research had another successful year in 2023, with several publications, grants and postgraduate researchers contributing to its ongoing expansion. The Program led to the ongoing Centre for Research Excellence (CRE) in ICU, and was awarded NHMRC/MRFF grants for the National Intensive Care Research Data Infrastructure Trial (NICE-Data \$2.5M CIA Prof Carol Hodgson) and RECOMMEND Platform trial (\$2.9M CIA Prof Carol Hodgson).

Publications were accepted including a review/meta-analysis in *NEJM Evidence* (The effect of mobilization at 6 months after critical illness), a comment in *Lancet Respir Med* (Long COVID—unravelling a complex condition), and research articles (To mobilise or not to mobilise: is that the right question? *Int Care Med*; Correlation of patient-reported outcome measures to performance-based function in critical care survivors: PREDICTABLE. *Aus Crit Care*; The impact of critical illness on patients’ physical function and recovery: An explanatory mixed-methods analysis. *Int Crit Care Nurs*; Psychometric properties of health-related quality of life instruments used in survivors of critical illness: a systematic review. *QoL Research*).

The team also oversaw and published NHMRC Guidelines for Early Mobilisation in Critically Ill Patients www.monash.edu/medicine/intensive-care-cre/development-of-an-australian-clinical-guideline-for-physical-rehabilitation-and-mobilisation-in-adult-intensive-care-units

Five post graduate researchers continued or commenced their research within the Recovery Program. Postgraduate researcher Michelle Paton (recently completed PhD) also presented at several conferences winning the Best 5x5 presentation for Cardiorespiratory at the APA Ignite Conference (Brisbane, Oct 2023) and Best Allied Health Poster at ANZICS CTG Conference (Noosa, March 2023). For further information please go to: www.monash.edu/medicine/sphpm/anzicrc/research/anzic-rc-recovery-program



Lead:
Prof Carol Hodgson

Consumer Engagement Program

Involvement of consumers and our community as active partners throughout the research journey ensures research meets the needs of the community and promotes rapid translation of research into policy and practice (www.nhmrc.gov.au/about-us/consumer-and-community-involvement/consumer-and-community-engagement). For many years, the ANZIC-RC has recognised that a process to support consumer involvement and engagement in all aspects of critical care research is a critical mechanism to deliver research of the highest quality and impact.

Building on previous experience in consumer engagement, we formalised this process in 2023 by developing the ANZIC-RC Consumer and Community Connection Committee (ANZIC-RC CONNECT).

CONNECT aims to bring together patients, family members or significant others who have had any connection with the Australian or New Zealand Critical Care environment by providing an opportunity to contribute to many research-related activities. The specific aims of CONNECT are to:

1. Partner in a meaningful and considered way
2. Improve the profile of critical care research with consumers
3. Establish a registry of consumers willing to connect
4. Provide training opportunities for consumers

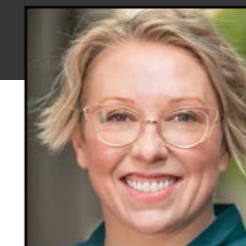
A/Prof Emma Ridley is leading the establishment of CONNECT and associated activities across all ANZIC-RC programs after completing a Graduate Certificate in Consumer Engagement in Healthcare.

Emma is joined by Ms Ann-Marie Baker as Co-Chair, an experienced patient and consumer representative in a number of health sector medical research and clinical groups. Ann-Marie is interested in providing a consumer perspective in medical research, and she feels it is important to have representation from the general public, as it is this group who will ultimately benefit from the research studies. Ann-Marie has found it rewarding to have the opportunity to learn more about the aims of particular projects and to offer thoughts on how a patient might react to the study, and how they may benefit from the outcomes of the research.

Other members of the CONNECT steering group include experienced researchers in critical care in Australia and New Zealand, researchers external to critical care with expertise in consumer engagement, project managers and research co-ordinators.

In 2023 the CONNECT team established their steering committee, finalised important preliminary work, including the terms of reference and the remuneration guidelines, and presented to the Australian and New Zealand Intensive Care Society Clinical Trials Group (ANZICS-CTG). We have held five CONNECT meetings and facilitated four national consumer stakeholder meetings for those interested in consumer engagement in critical care within Australia and New Zealand.

Emma and Ann-Marie participated in the first Consumer Engagement Showcase, held by Monash University’s School of Public Health and Preventive Medicine, to showcase all consumer activities across the School, attended by more than 100 people.



Lead/Co-Chair:
A/Prof Emma Ridley



Consumer/Co-Chair:
Ms Ann-Marie Baker

ANZIC-RC Governance - Advisory Board



Prof Jamie Cooper
Co-Director ANZIC-RC
Prof Rinaldo Bellomo
Co-Director ANZIC-RC
Prof Carol Hodgson
Director CRE-ICU, Co-Dep. Director ANZIC-RC
Prof Alistair Nichol
Co-Deputy Director ANZIC-RC
Prof Andrew Udy
Co-Deputy Director ANZIC-RC
Prof Sophia Zoungas
Head SPHPM Monash



Manoj Saxena
Chair ANZICS-CTG
Prof Sandra Peake
Immediate-Past Chair ANZICS-CTG
Prof David Pilcher
Representative ANZICS-CORE
Prof Colin McArthur
Representative New Zealand
Dr Shay McGuinness
Representative New Zealand
A/Prof Craig French
Representative Australia



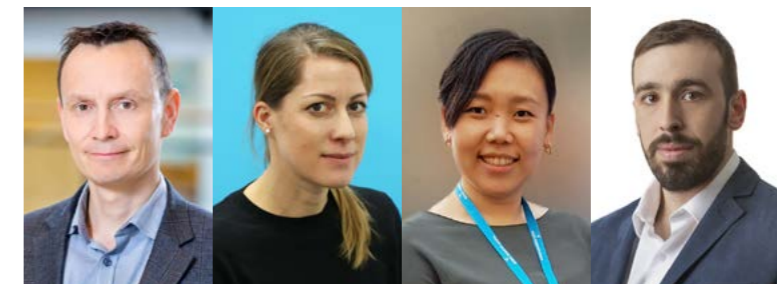
ANZIC-RC Senior Research Fellows



A/Prof Daryl Jones
(Australia) 2006
Prof Alistair Nichol
(Ireland) 2007
Dr Andrew Westbrook
(Ireland) 2008
Prof Ville Pettilä
(Finland) 2009
Prof Cécile Aubron
(France) 2010

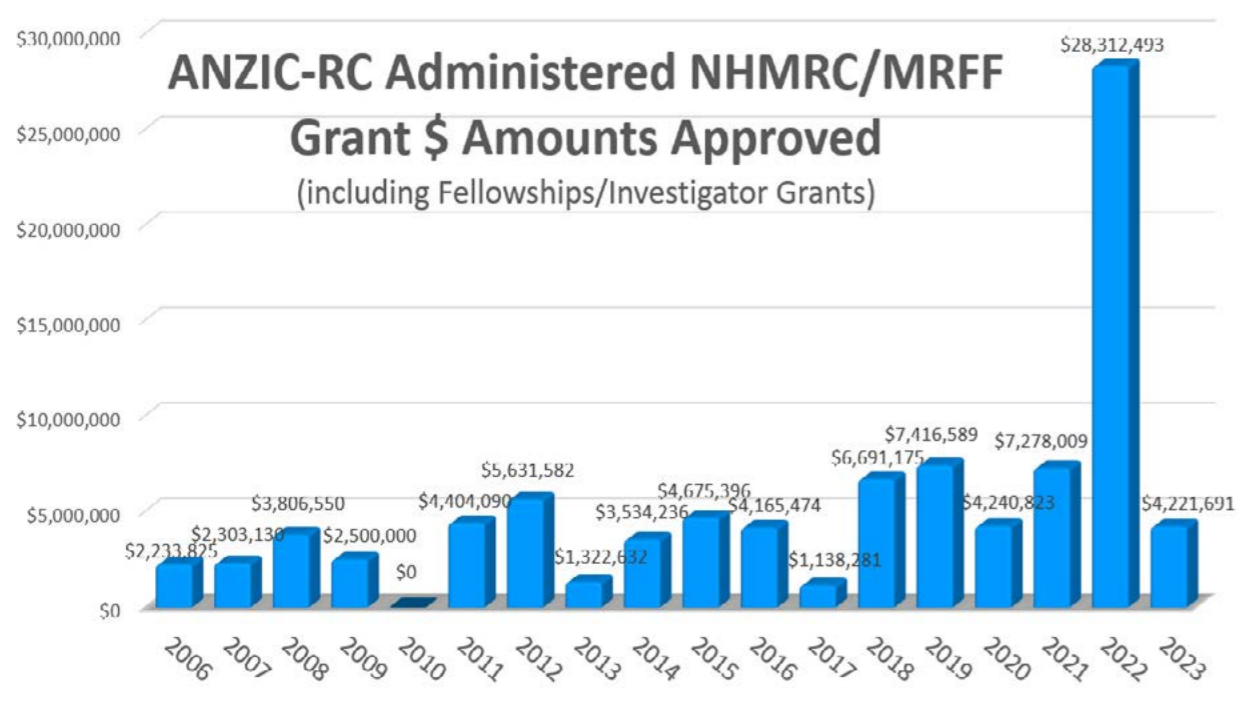


Prof Carol Hodgson
(Australia) 2011
Dr Dashiell Gantner
(Australia) 2012
A/Prof Maija Kaukonen
(Finland) 2012-3
A/Prof Andrew Davies
(Australia) 2014-5

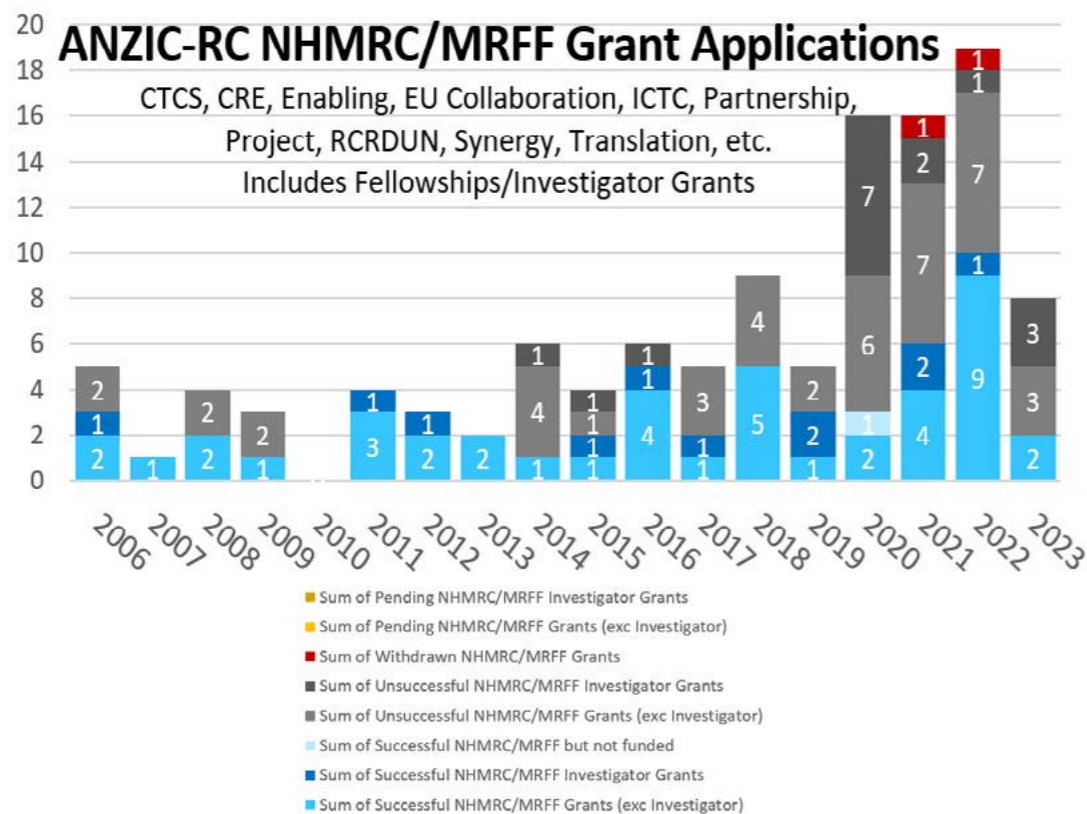


Prof Markus Skrifvars
(Finland) 2016-7
Dr Nora Luethi
(Switzerland) 2017-8
Dr Tomoko Fujii
(Japan) 2018-9
Dr Ary Serpa Neto
(Brazil) 2020-3

The graph below shows that in 2023 the ANZIC-RC had \$4+ million in new NHMRC/MRFF grant funding for ANZIC-RC administered grants.



The graph below shows that in 2023 the ANZIC-RC had 2 new NHMRC/MRFF ANZIC-RC administered grants.



Title	Agency / Grant Type	Chief Investigator/s	Year/s of Funding	Total Amount	Administering Institution
DRIVE RCT: Driving pressure versus limited pressure ventilation for acute respiratory failure	NHMRC/MRFF 2030653 CTA	Hodgson C, Serpa Neto A, Peake S, Nichol A, Seppelt I, Higgins A, Kruger P, Gattas D, Orford N, Webb S, Charles-Nelson A, et al	2024-2028	\$1,599,086	Monash (ANZIC-RC)
*Adaptive platform trial for severe community acquired pneumonia: new interventions for severe CAP and influenza	NHMRC/MRFF 2015788 ICTC	Webb S, McQuilten Z, Nichol A, Hills T, Higgins A, Burrell A, ... Seppelt I, McArthur C	2023-2026	\$2,824,703	Monash (ANZIC-RC)
Improving critically ill patient outcomes through randomised trials and registries in intensive care	NHMRC 2016324 Investigator	Cooper DJ	2023-2027	\$3,487,110	Monash (ANZIC-RC)
CCIR: Consumer and Community Involvement; Implementation Research for Impact	NHMRC/MRFF 2019278	Teede H, Jones A, Reeder S, Dorin A, ... Hodgson C, et al	2023-2025	\$999,129	Monash
NICE-Data: National Intensive Care Data Infrastructure Initiative	NHMRC/MRFF MRFFRD1000056 Data Infrastructure	Hodgson C, ... Pilcher D, Higgins A, ... Litton E, Burrell A, ... Charles-Nelson A, Broadley T, et al	2023-2028	\$2,497,605	Monash (ANZIC-RC)
PLATFORM - CRITICAL CARE: A national critical care research platform to ensure high-quality sepsis care in Australian ICUs	NHMRC/MRFF 2023066 EMCR	Udy A, ... Serpa Neto A, Higgins L, Delaney A, Eastwood G, Jones D, et al	2023-2028	\$4,899,779	Monash (ANZIC-RC)
PLATFORM - ECMO: RECOMMEND Generating new evidence to reduce complications and improve the safety ...	NHMRC/MRFF 2023109 CTAI	Hodgson C, Cooper DJ, ... Higgins A, ... Pellegrino V, ... Serpa Neto A, Burrell A, Orford N	2023-2028	\$2,985,993	Monash (ANZIC-RC)
PLATFORM - ICU NUTRITION: A national platform for improving quality of nutrition care for critically ill adults and children	NHMRC/MRFF 2023953 CR-AH	Ridley E, Peake S, ... Udy A, Hodgson C, Nichol A, ... Chapple L-A, Freeman-Sanderson A, Tatuco O, Bailey M, ... King V, Winderlich J	2023-2026	\$1,494,951	Monash (ANZIC-RC)
PRECISE: PRrecision Ecmo in Cardlogenic Shock Evaluation	NHMRC/MRFF 2017089 Cardiovascular	Burrell A, Hodgson C, ... Pellegrino V, Dennis M, Higgins A, ... Nichol A, Serpa Neto A, et al	2023-2025	\$999,779	Monash (ANZIC-RC)
PORTHOS: Angiotensin II vs. noradrenaline infusion to reduce length of hospital stay after cardiac surgery	ANZCA Research Grant	Coulson T, Miles L, Marasco S, Frei D, Pilcher D, Bellomo R, Myles P, Valley M, Raman J	2023-2025	\$117,056	Monash
PUMA Pilot: Pulmonary artery catheterisation in cardiac surgery	ANZCA Research Grant	Perry L, Bellomo R, Smith J, Royse A, Segal R, et al	2023	\$69,981	University of Melbourne
A Multi-Platform Clinical Training Suite To Improve Artificial Heart-Lung Therapy ...	Avant Foundation Research Grant	Pellegrino V, ... Diehl A, Hodgson C	2023-2024	\$99,975	Monash
DRIVE RCT: Driving Pressure-Limited Ventilation in Hypoxemic Respiratory Failure	CIHR Research Grant	Goligher E, ... Hodgson C, ... Nichol A, ... Webb S, et al	2023-2026	\$654,712	University of Toronto
BONANZA-EUROPE: Brain Oxygen Neuromonitoring Assessment Europe Trial €1,217,023	Health Research Board (HRB), Ireland DIFA-2023-021	Murray P, ... Nichol A, Udy A	2023-2027	\$2,009,528	University College Dublin
Evaluating ... TMRN-TMRP Communication Wheel for trials: ...SWAT process evaluation using RE-AIM. €12,500	HRB, Ireland TM Award-2023	Shiely F, ... Nichol A, et al	2023	\$20,644	University College Dublin
PRIME-Ireland Pandemic Resilience Ireland Clinical Platform: Refining, Performing, Predicting and Applying ... €2,499,982	HRB, Ireland APRO-2023-017	Nichol A, et al	2023-2028	\$4,123,879	University College Dublin
REMAP-CAP Ireland 2023: Beyond COVID-19 €1,245,994	HRB, Ireland DIFA-2023-025	Nichol A, ... McQuilten Z, ... Webb S, et al	2023-2028	\$2,055,606	University College Dublin
ECMO-PROMPT: Pilot Feasibility RCT of PROM Monitoring and Feedback to Improve Disability and Quality of Life ...	ICF 2318 Research Project	Higgins A, Hodgson C, Burrell A, Sheldrake J, Russell G, Hayes K, See E, Orford N	2023-2025	\$39,470	Monash (ANZIC-RC)
*A coordinated multiplatform randomised trial for hospitalised patients with COVID-19	NHMRC/MRFF 2016162 COVID-19 TAPHA	Webb S, Tong S, McQuilten Z, Davis J, Nichol A, ... Higgins A, ... Burrell A, ... McArthur C	2022-2026	\$3,997,914	Monash (ANZIC-RC)
Centre of Research Excellence - ... antimicrobial resistance (RESPOND)	NHMRC CRE 2007007	Roberts J, ... Bellomo R, et al	2022-2026	\$2,500,000	University of Queensland
FEISTY II: Fibrinogen Early In Severe Trauma Study II	NHMRC/MRFF 2015332 RCRDUN	McQuilten Z, Winearls J, Cooper DJ, Reade M, French C, Presneill J, Higgins A, et al	2022-2027	\$3,162,179	Monash (ANZIC-RC)
Healthcare resource utilisation and long term outcomes following critical illness	NHMRC Investigator 2008447	Higgins A	2022-2026	\$650,740	Monash (ANZIC-RC)
Improving Outcomes after Extracorporeal Membrane Oxygenation (ECMO)	NHMRC Investigator 2010110	Burrell A	2022-2026	\$450,370	Monash (ANZIC-RC)
National Transfusion Research Data Infrastructure Initiative	NHMRC/MRFF MRFFRD000049	Wood E, McQuilten Z, Hodgson C, Higgins A, et al	2022-2026	\$2,999,557	Monash
REDEEM: RCT of ECMO to Desedate, Extubate Early and Mobilise in severe acute respiratory infection	NHMRC/MRFF 2015039 RCRDUN	Burrell A, Cooper DJ, Hodgson C, Fraser J, Nair P, Pellegrino V, ... Udy A	2022-2026	\$2,534,432	Monash (ANZIC-RC)
RESPOND: Resuscitation in Paediatric Septic Shock using Mega-Dose Vitamin C ...	NHMRC 2014937 CTCS	Gibbons K, Bellomo R, Schlappach L, Butt W, et al	2022-2026	\$1,305,173	University of Queensland
SODA-BIC: Sodium Bicarbonate for Decompensated Metabolic Acidosis in the Intensive Care Unit	NHMRC 2014960 CTCS	Serpa Neto A, Bellomo R, Peake S, Bailey M, Cooper DJ, Udy A, Young P, Secombe P, Higgins A, See E	2022-2027	\$1,920,487	Monash (ANZIC-RC)

Active Research Grants (continued)

Title	Agency / Grant Type	Chief Investigator/s	Year/s of Funding	Total Amount	Administering Institution
SNAP-PY: Staphylococcus aureus Network Adaptive Platform trial for Paediatrics + Youth	NHMRC 2014900	Bowen A, Davis J, Tong S, Campbell A, ... Webb S , et al	2022-2027	\$2,045,957	University of WA
Staphylococcus aureus Network Adaptive Platform Trial	NHMRC CTCS 1184238	Tong S, Davis J, Webb S , Cheng A, Marsh J, Berry S, Lye DC, et al	2022-2025	\$4,953,507	University of Melbourne
TARGET-PROTEIN: Augmenting dietary protein during critical illness	NHMRC/MRFF 2014786 RCRDUN	Deane A, Chapman M, Peake S, ... Presneill J, Bellomo R, Young P, Ridley E et al	2022-2026	\$1,992,218	University of Melbourne
Translating novel mechanism-guided ... recovery of the brain and kidneys ...	NHMRC/MRFF 2016098	Landakeva Y, Ayton S, May C, Bellomo R , Bush A, et al	2022-2025	\$998,224	Florey Institute
ROSETTA: Red Blood Cell Transfusion in ECMO – a pilot Trial	ANZSBT Research Grant	Buscher H, ... Hodgson C, Nichol A, Burrell A, Dennis M, ... Flint A	2022-2024	\$18,000	University of NSW
Nutrition Practices Across Hospitalisation in Adult Patients requiring ECMO in ANZ	AUSPEN	Ferguson C, Tatucu O, Hodgson C, Ridley E	2022-2024	\$15,000	Monash
PROACTIVE Pilot Trial: Prevent Reduced Outcomes in ARDS ... ECMO CA\$170,850	CIHR Canada Project Grant	Burrell A , Fan E, Ferguson N	2022-2025	\$185,282	University of Toronto, Canada
ECMO-AI: Survival Prediction of ECMO Using Artificial Intelligence	ELSO 2022003	Stephens A, Hodgson C , ... Pellegrino V, Pilcher D , et al	2022-2023	\$6,942	Monash
SHERPA: Scene or Hospital ECMO for Refractory cardiac arrest Patients	Heart Foundation Vanguard 107045	Burrell A , Bernard S, Richardson A, Orosz J	2022-2023	\$150,000	Monash (ANZIC-RC)
TAME-Translation: Translating the TAME cardiac arrest trial results to public, policy, clinicians and researchers (€59,944)	HRB, Ireland Knowledge Translation KTA-2022-033	Nichol A , et al	2022-2023	\$92,180	University College Dublin
Development, validation and dissemination of PRECIS-3 tool to support the design of pragmatic RCTs (€370,000)	HRB, Ireland Investigator-Led ILP-POR-2022-044	Shiely F, ... Nichol A , et al	2022-2026	\$569,050	University College Cork
Clinical Research Facilities/Centres UCD Clinical Research Centre (€5,321,429)	HRB, Ireland CRFC-2001-002	Doran P, Carroll A, Crowley R, Cullen W, Godson C, ... Nichol A	2022-2026	\$8,184,712	University College Dublin
Pandemic Resilience: translating knowledge for improved future pandemic preparedness (€59,184)	HRB, Ireland Knowledge Translation KTA-2022-032	Nichol A , et al	2022-2023	\$91,222	University College Dublin
Clinical Trials: what are they and why are they important (€60,000)	HRB, Ireland CT	Devane D, ... Nichol A et al	2022-2023	\$99,135	University College Dublin
REMAP-CAP Adaptive Platform interventions for COVID-19	Minderoo Foundation	Webb S , et al	2022-2023	\$1,000,000	Monash (ANZIC-RC)
Building an international precision medicine platform trial for ARDS £176,710	NIHR UK EME Acceleration Award	McAuley D, Beane A, Fowler A, ... Nichol A , et al	2022-2023	\$310,077	UK
Establishment of Irish Acquired Brain Injury Public & Patient ... (Irish ABI-PPI-G) (€4,000)	PPI Ignite Network @ UCD, Seed Funding	Nichol A , Hays L, Conlon E, Ainscough K, Crawley L, Keegan D	2022-2023	\$6,165	University College Dublin
SPRINT-SARI Ireland (€20,000)	St Vincent's Anaesthesia Foundation	Nichol A et al	2022-2024	\$33,047	University College Dublin
A suture-less cannula for rapid, off-bypass implantation of left ventricular assist devices	NHMRC 2002567	Gregory S, Marasco S, McArthur S, Carberry J, Liao S, Burrell A	2021-2024	\$816,491	Monash
ATBIND: Australian Traumatic Brain Injury National Data (ATBIND) Project	NHMRC/MRFF 2007671	O'Reilly G, Fitzgerald M, Curtis K, Kim Y, ... Udy A , et al	2021-2023	\$230,397	Monash
CRE-ICU: A Centre for Research Excellence to Transform Outcomes of Critically Ill Patients in ICU	NHMRC CRE 2006514	Hodgson C, Cooper DJ, Fraser J, Peake S, Bellomo R, ... Bailey M, ... Higgins A	2021-2026	\$2,500,000	Monash (ANZIC-RC)
ECMO-Rehab: Early Cardiac Rehab to Improve Survival and Recovery in Critically-ill Patients on ECMO	NHMRC/MRFF 2007591 CV Health Mission	Hodgson C, Higgins A, Bailey M, Pellegrino V, Nair P, McGiffin D, Presneill J , et al	2021-2023	\$662,649	Monash (ANZIC-RC)
IMPACT: Transforming Clinical Research to Improve Outcomes for Preterm Infants	NHMRC/MRFF MRFAR000054	Whitehead C, Manley B, Groom K, Davis P, Mol B, ... Webb S , et al	2021-2024	\$2,642,199	University of Melbourne
Informatics-TBI: Informatics approach to predict outcomes ... moderate to severe TBI	NHMRC/MRFF 2008223 Mission TBI	Fitzgerald M, Gabbe B, Lannin N, Vallmuur K, ... Cooper DJ , et al	2021-2023	\$499,816	Monash
*LOGICAL: Low OxyGen Intervention for Cardiac Arrest injury Limitation trial	NHMRC CTCS 2001237	Hodgson C, Bellomo R, Young P, Peake S, Bailey M, McDonald C, Higgins A, Nichol A, Udy A, Deane A	2021-2026	\$2,314,403	Monash (ANZIC-RC)
*PRECISION-TBI – Establishing evidence-based, data driven, clinical care guidelines	NHMRC/MRFF 2007705 Mission TBI	Udy A, Cooper DJ, Jeffree L, Bellomo R, Nichol A , et al	2021-2025	\$499,478	Monash (ANZIC-RC)
HIGHMAPPCA: Higher mean blood pressure during post cardiac arrest care €500K	Academy of Finland Bayesian Platform	Skrifvars M, ... Nichol A, ... Eastwood G , et al	2021-2025	\$771,041	University of Helsinki
COVIC-HA: Coronavirus in Victorian Healthcare and Aged Care Workers Cohort Study	Victorian Govt DJSIR	Cheng A, Leder K, McGuinness S, ... Hodgson C, ... Udy A , et al	2021-2023	\$1,401,000	Monash
Improving Outcomes After Critical Illness (€999,945)	HRB, Ireland Clinical Trials Network	Nichol A , Ainscough K, Brickell K, Curley A, Curley G, et al	2021-2026	\$1,537,516	University College Dublin
National Irish COVID-19 Biobank (€2,000,000)	HRB, Ireland NICB	Mallon P, Bergin C, Doran P, Brennan D, ... Nichol A , et al	2021-2023	\$3,078,417	UC Dublin and TC Dublin
Platelet transfusion in preterm babies with thrombocytopenia (€1,218,690)	HRB, Ireland RCT	Curley A, Doran P, Nichol A , et al	2021-2027	\$1,875,818	University College Dublin
Trials Methodology Research Network (Ireland) (€3,000,000)	HRB, Ireland TMRN	Devane D, Nichol A , et al	2021-2026	\$4,623,804	University of Galway

Active Research Grants (continued)

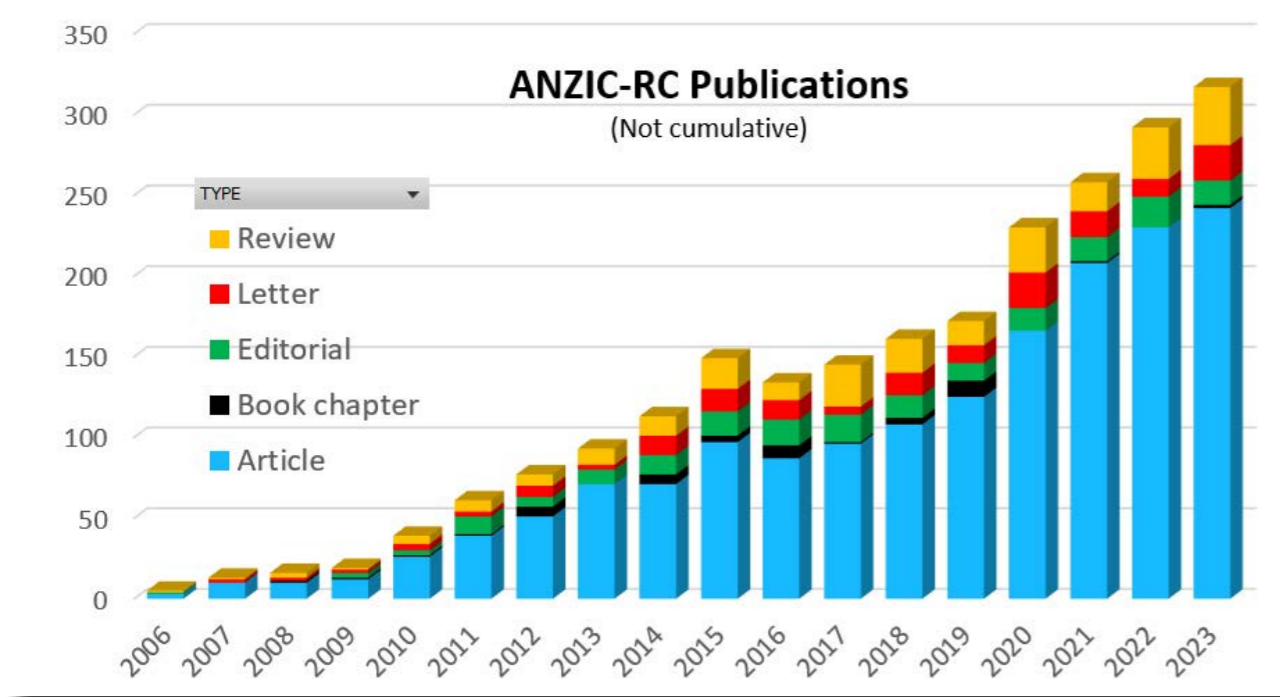
Title	Agency / Grant Type	Chief Investigator/s	Year/s of Funding	Total Amount	Administering Institution
Erythropoietin to improve outcomes for critically ill trauma patients (NZ\$1,119,020)	HRC, New Zealand 20/366 Project	McArthur C, Kazemi A, Moore J, Young P, Freebairn R, ... French C	2021-2024	\$1,037,290	MRINZ
INPUT: International Point Prevalence Study of Intensive Care Unit Transfusion Practices	NBA	McQuilten Z, Wood E, Higgins A, Flint A, Vlaar A, Cooper DJ, French C, Reade M, Winearls J	2021-2023	\$155,106	Monash
ARISE-Fluids: AUS Resuscitation In Sepsis Evaluation: Fluid or Vasopressors in ED	NHMRC/MRFF 1200084 RCRDUN	Peake S, Macdonald S, Delaney A, ... Udy A, ... Higgins A , et al	2020-2025	\$2,335,540	Monash (ANZIC-RC)
*BONANZA: Brain Oxygen Neuromonitoring In Australia + NZ Assessment Trial	NHMRC Project Grant 1156636	Udy A, Cooper DJ, Nichol A, ... Bailey M, ... Higgins A	2020-2025	\$2,431,863	Monash (ANZIC-RC)
*BONANZA: Brain Oxygen Neuromonitoring In Australia and NZ Assessment Trial	NHMRC/MRFF 1167706 Project	Udy A, Cooper DJ, Nichol A, ... Bailey M, ... Higgins A	2020-2024	\$1,084,852	Monash (ANZIC-RC)
BONE-ZONE: Bone Loss Prevention with Zoledronic Acid or Denosumab in Crit Ill Women	NHMRC/MRFF 1199726 RCRDUN	Orford N, ... Cooper DJ, Hodgson C, ... Bailey M, ... Myburgh J	2020-2025	\$1,905,283	Monash (ANZIC-RC)
Early interventions to improve the quality of survival after critical illness	NHMRC Investigator 1173271	Hodgson C	2020-2024	\$1,243,891	Monash (ANZIC-RC)
Generation of ... knowledge to inform global nutrition practice during critical illness	NHMRC Investigator 1176532	Ridley E	2020-2024	\$561,800	Monash (ANZIC-RC)
SPICE IV: Sedation Practice in IC Evaluation: Early Sedation with dexmedetomidine in Older Ventilated Critically Ill Patients	NHMRC CTCS 1186863	Shehabi Y, Bellomo R, Howe B, Hodgson C, Presneill J, Bailey M, Reade M, Webb S, ... Seppelt I	2020-2025	\$4,995,197	Monash
The impact of sepsis in critically ill patients	NHMRC IG 1173079	Myburgh J	2020-2024	\$2,101,595	Uni NSW
Addressing Australia's National Transfusion Research Priorities	NHMRC Synergy 1189490	Wood E, McQuilten Z, ... Cooper DJ, Reade M, Higgins L , et al	2020-2024	\$5,000,000	Monash
EPO-TRAUMA: Epoetin alfa vs placebo in critically ill trauma patients €990,530	IRHB DIFA-2018-028	Nichol A, Bellomo R, ... French C et al	2020-2024	\$1,635,868	University College Dublin
IMPROVE-HF: Improving quality of survival for patients with acute ... heart failure	NHF Fellowship	Hodgson C	2020-2024	\$200,000	Monash (ANZIC-RC)
ASCEND: ARDS in Children and ECMO initiation strategies impact on Neuro-Dev	NIH Project 1R01HL153519	Barbaro R, Hodgson C	2020-2025	\$34,710	University of Michigan
CLIP: Trial of cryopreserved platelets vs. conventional liquid-stored platelets for management of post-surgical bleeding	NHMRC 1156641 Project	Reade M, Marks DC, French C, McQuilten Z, Weinberg L, Irving D , et al	2019-2023	\$1,825,648	Monash (ANZIC-RC)
EPO-TRAUMA: Trial of Erythropoietin alfa vs. placebo in critically ill trauma patients	NHMRC/MRFF Project 1170001	French C, Nichol A, Bellomo R, Cooper DJ, Bailey M, Higgins A, McArthur C, Hodgson C	2019-2025	\$3,499,109	Monash (ANZIC-RC)
BLING III: Phase III RCT of continuous β-lactam infusion ... (NZ\$1,195,807)	HRC NZ Project	McGuinness S, Parke R, Freebairn R, ... McArthur C, Roberts S , et al	2019-2023	\$1,144,097	MRINZ
REMAP-CAP Europe	Utrecht University	Webb S, Burrell A , et al	2019-2026	\$749,738	Monash (ANZIC-RC)
BEAT-CF: Bayesian Evidence-Adaptive Trial to optimise management of Cystic Fibrosis	NHMRC/MRFF 1152376	Snelling T, Berry S, Jaffe A, Marsh J, McKenzie A, ... Webb S	2018-2023	\$3,427,550	University of Sydney
BLENDER: Blend to Limit Oxygen in ECMO: A randomised Controlled Registry Trial	NHMRC/MRFF 1152270	Pilcher D, Hodgson C, Fraser J, Cooper DJ, Burrell A, Pellegrino V, Udy A, ... Bailey M, Higgins A	2018-2024	\$753,355	Monash (ANZIC-RC)
*EXCEL Registry: Collaborative approach to improve outcomes of Aust patients with acute heart failure and cardiac arrest requiring ECMO	NHMRC Partnership 1152793	Hodgson C, Cooper DJ, Bailey M, Fraser J, Pilcher D, ... Pellegrino V, Stub D, Higgins A	2018-2023	\$692,657	Monash (ANZIC-RC)
			Total	\$131,518,734	

* Lead Human Ethics has approved waived consent for enrolment/hospital data, PLUS opt-out/deferred or consent for follow-up

Government Research Agreements

Title	Agency / Grant Type	Chief Investigator/s	Year/s of Funding	Total Amount	Administering Institution
A nationwide dashboard of ICU activity, the Critical Health Resources Information System (CHRIS)	Commonwealth for CHRIS	Pilcher D, ... Secombe P, Huckson S	2023-2025	\$996,000	Australian and New Zealand Intensive Care Society (ANZICS)
SPRINT-SARI	Commonwealth (Federal Health Department) DOHAC	Udy A, Burrell A	2023-2024	\$1,594,700	Monash (ANZIC-RC)
Triennial funding for ANZICS Centre for Outcome and Resource Evaluation to provide registry services and monitoring delivery of ICM throughout ANZ	Jurisdictional Health Departments of ANZ	Pilcher D, ... Secombe P, Huckson S	2023-2026	\$4,940,297	Australian and New Zealand Intensive Care Society (ANZICS)
SPRINT-SARI surveillance for COVID-19 patients in Australian ICUs 2021	Commonwealth (Federal Health Department) DOHAC	Udy A, Burrell A	2021-2024	\$888,133	Monash (ANZIC-RC)
			Total	\$8,419,130	

The graph below shows that in 2023 the ANZIC-RC had a record 317 publications.



Landmark 2023 ANZIC-RC Publications

- Eastwood G, Nichol AD, Hodgson C, Parke RL, McGuinness S, Nielsen N, Bernard S, Skrifvars MB, ... Capellier G, ... Arabi Y, ... Deane A, ... Bailey MJ, Paul E, Ady B, ... Trapani T, ... Bellomo R, TAME Study Investigators. Mild Hypercapnia or Normocapnia after Out-of-Hospital Cardiac Arrest. *N Engl J Med* 2023;389:45-57.2.
- PATCH-Trauma Investigators and the ANZICS Clinical Trials Group, Gruen RL, Mitra B, Bernard SA, McArthur CJ, Burns B, Gantner DC, ... Murray LJ, Myles PS, Ng SJ, Pitt V, ... Reade MC, ... Trapani T, Young PJ. Prehospital Tranexamic Acid for Severe Trauma. *N Engl J Med* 2023;389:127-36.
- REMAP-CAP Investigators, Hills TE, ... Arabi Y, ... Burrell A, ... Green C, ... Higgins AM, ... McGuinness S, McQuilten ZK, ... Nichol AD, ... Parke RL, Parker JC, ... Rowan KM, ... McArthur CJ, ... Webb SA, et al. Simvastatin in Critically Ill Patients with Covid-19. *N Engl J Med* 2023;389:2341-54.
- Goligher EC, ... McArthur C, Webb S, et al, REMAP-CAP, ATTACC, ACTIV-4a Investigators. Heterogeneous Treatment Effects of Therapeutic-Dose Heparin in Patients Hospitalized for COVID-19. *JAMA* 2023;329:1066-77.
- LOVIT-COVID Investigators on behalf of the Canadian Critical Care Trials Group, the REMAP-CAP Investigators, Adhikari NKJ, ... Webb SA, ... Nichol AD, McArthur CJ, ... Arabi YM, ... Burrell A, ... Green C, Higgins AM, ... McGuinness SP, McQuilten ZK, ... Parke RL, Parker JC, ... Rowan KM, ... Trapani T, ... Udy AA, et al. Intravenous Vitamin C for Patients Hospitalized With COVID-19: Two Harmonized Randomized Clinical Trials. *JAMA* 2023;330:1745-59.
- REMAP-CAP Writing Committee for the REMAP-CAP Investigators, Higgins AM, ... Arabi YM, ... Burrell A, ... McGuinness SP, ... Nichol AD, Parke RL, Parker JC, ... Rowan KM, ... Serpa-Neto A, ... Green C, L... McArthur CJ, ... Webb SA, et al. Long-term (180-Day) Outcomes in Critically Ill Patients With COVID-19 in the REMAP-CAP Randomized Clinical Trial. *JAMA* 2023;329:39-51.
- REMAP-CAP Writing Committee for the REMAP-CAP Investigators, Lawler PR, ... Higgins AM, ... Rowan KM, ... Arabi YM, ... Burrell A, ... McGuinness SP, McQuilten Z, ... Nichol AD, ... Parke RL, Parker JC, ... Singh V, ... Green C, ... McArthur CJ, Webb SA. Effect of Angiotensin-Converting Enzyme Inhibitor and Angiotensin Receptor Blocker Initiation on Organ Support-Free Days in Patients Hospitalized With COVID-19: A Randomized Clinical Trial. *JAMA* 2023;329:1183-96.

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- Bain CR, Myles PS, Martin C, Wallace S, Shulman MA, Corcoran T, Bellomo R, Peyton P, Story DA, Leslie K, Forbes A, RELIEF trial investigators. Postoperative systemic inflammation after major abdominal surgery: patient-centred outcomes. *Anaesthesia* 2023;78:1365-75.
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Other Publications

In 2023 there were 216 other papers in PubMed-listed journals .

ANZIC-RC Academic Staff



Prof Jamie Cooper
Co-Director ANZIC-RC
 Prof Rinaldo Bellomo
Co-Director ANZIC-RC
 Prof Carol Hodgson
Director CRE-ICU, Co-Dep. Director ANZIC-RC
 Prof Alistair Nichol
Co-Deputy Director ANZIC-RC
 Prof Andrew Udy
Co-Deputy Director ANZIC-RC



Prof Steve Webb
Intensivist
 Prof Michael Bailey
Statistician
 A/Prof Emma Ridley
Lead Nutrition Program
 Dr Anis Chaba
Senior Research Fellow
 Dr Anaïs Charles-Nelson
Senior Research Fellow - Statistician
 Dr Glenn Eastwood
Senior Research Fellow



Dr Lisa Higgins
Senior Research Fellow
 Dr Toby Jeffcote
Senior Research Fellow
 Dr Eldho Paul
Senior Research Fellow - Statistician
 Dr Ary Serpa Neto
Senior Research Fellow
 Dr Oana Tatucu
Research Fellow

ANZIC-RC Professional Staff



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Research Manager
 Ms Victoria King
Business Manager
 Ms Amanda Martin
Admin Manager
 Ms Belinda Howe
ARISE-FLUIDS + CLIP II Snr Project Manager
 Dr Patricia Alliegro
BONANZA Project Manager
 Ms Shirley Vallance
BONANZA Project Manager
 Ms Allison Bone
BONE-ZONE Project Manager
 Ms Tessa Broadley
CRE-ICU Project Manager
 Ms Rebecca Morgan
DRIVE Project Officer



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 Ms Vicki Papanikolaou
EPO-TRAUMA Project Manager
 Mr Bentley Fulcher
EXCEL Project Manager
 Ms Bridget Ady
FEISTY II Project Manager
 Mr Curtis Hopkins
HEALTH ECONOMICS Research Officer
 Ms Marlene Gojanovic
INTENT Project Officer
 Mr Alex Poole
INPUT Project Manager
 Ms Anne Mather
LOGICAL Snr Project Officer
 Ms Phoebe McCracken
PRECISE Project Manager



Dr Camila Battistuzzo
PRECISION-TBI Project Manager
 Ms Stephanie Hunter
REDEEM Project Manager
 Ms Jane Parker
REMAP-CAP Project Manager
 Mr Cameron Green
REMAP-CAP Global Project Manager
 Ms Vanessa Singh
REMAP-CAP Project Manager
 Ms Bec McEldrew
REMAP-CAP Snr Project Officer
 Ms Lane Carrandi
REMAP-CAP Snr Project Officer
 Ms Hannah Tolley
REMAP-CAP Snr Project Officer
 Ms Mairead McNamara
SODA-BIC Project Manager



Dr Elizabeth Ayre
Project Officer
 Ms Natalie Linke
Project Officer
 Mr Lonni Gomes
Research and Admin Officer
 Mr Luke Lu
Biomed Engineer Neurosignal Analysis
 Ms Laura Jenner
Senior Admin Officer
 Ms Linda Nguyen
Project Officer
 Ms Caitlin Tenace
Project Officer

PhD Scholars: Active in 2023



Ms Jenna Amon Ms Tessa Bradley Mr Alastair Brown Ms Kelly Cairns Ms Lane Carrandi Ms Sara Carrillo



Ms Sheraya De Silva Ms Clare Ferguson Dr Andrew Flint Ms Sabrina Hernandez Ms Jenna Lang Mr Kuan-Ying (Luke) Lu



Dr Vinodh Nanjaya Dr Rekha Pai Mangalore Ms Michelle Paton Xiuxian Pham Ms Gemma Pound Mr Paul Ross



Dr Paul Secombe Dr Ashwin Subramanian Mr Avishka Wickramarachchi Ms Jacinta Winderlich

PhDs: Conferred

2012: Dr Helen Ackland; 2014: Dr Elizabeth Moore; 2015 Prof Daryl Jones, Dr Antoine Schneider; 2016: Dr Ralph Tramm; 2017: Dr Neil Glassford, Dr Nor'azim Mohd Yunos; 2018: Dr Rafidah Atan, Dr Tim Coulson, A/Prof Neil Orford, Dr Eldho Paul, Dr Emma Ridley; 2019: A/Prof Aidan Burrell, Dr Ravi Tiruvoipati; 2020: Dr Matt Brain, Dr Lisa Higgins, Dr Claire Tipping; 2021: Dr Bianca Levkovich, Dr Fumitaka Yanase; 2022: Dr Dashiell Gantner; 2023: Dr Ashwin Subramaniam, Dr Jenna Lang

Other Students: Completed

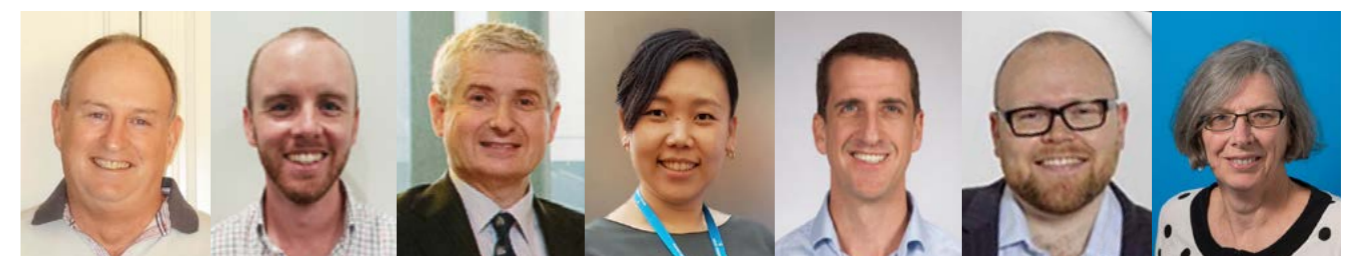
2012: Mr Simon Landes *BMedSc(Hons)*; 2014: Mr Edward Quine *BMedSc(Hons)*; 2015: Ms Madeline Cenedese *BHlthSc(Hons)*; 2016: Mr Zachary O'Brien *BMedSc(Hons)*, Mr Chun Sang Kwan *BBiomedSc(Hons)*; 2018: Mr Daniel Engeler *BBiomedSc(Hons)*; 2019: Mr Bentley Fulcher *BBiomedSc(Hons)*; 2021: Ms Kate Wilcox *BMedSc(Hons)*; 2022: Mr Atacan Etrugrul *BMedSc(Hons)*, Mr Nathaniel Flacks *BMedSc(Hons)*, Ms Louisa He *BMedSc(Hons)*, Ms Linda Nguyen *BBiomedSc(Hons)*; 2023: Ms Caitlin Tenace *BBiomedSc(Hons)*, Mr Jeffrey Shao *BMedSc(Hons)*



Prof Yaseen Arabi (Saudi Arabia) Prof Cécile Aubron (France) Prof Tracey Bucknall A/Prof Aidan Burrell A/Prof Hergen Buscher Prof Gilles Capellier (France) Prof Marianne Chapman



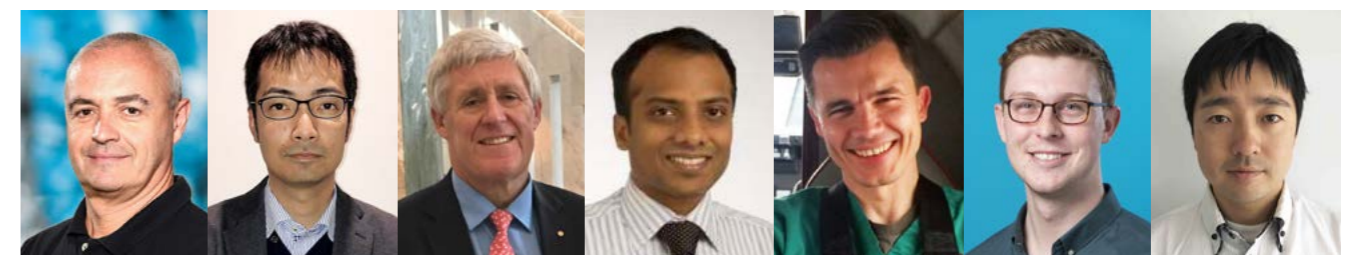
Dr Tim Coulson A/Prof Andrew Davies Dr Adam Deane A/Prof Anthony Delaney A/Prof Mark Dennis Dr Arne Diehl Prof Jacques Duranteau (France)



Dr Mark Finnis Dr Andrew Flint A/Prof Craig French Dr Tomoko Fujii (Japan) Dr Dashiell Gantner Dr Neil Glassford Ms Sue Huckson



Prof Olivier Huet (France) Dr Josh Ihle Prof Daryl Jones Ms Lorraine Little A/Prof Stephen Macdonald Prof Colin McArthur (New Zealand) Prof Christine McDonald



Dr Shay McGuinness (New Zealand) Dr Katsunori Mochizuki (Japan) Prof John Myburgh Dr Vinodh Nanjaya Dr Chris Nickson Mr Zachary O'Brien Dr Shuji Okahara (Japan)

ANZIC-RC Adjuncts (continued)



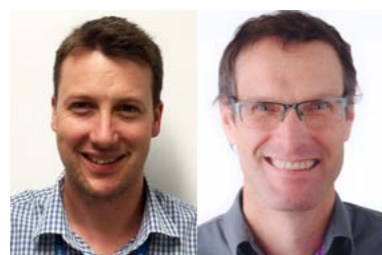
A/Prof Neil Orford A/Prof Rachael Parke
(New Zealand) Prof Sandra Peake A/Prof Vincent Pellegrino Prof David Pilcher



A/Prof Jeffrey Presneill Prof Michael Reade Prof Kathy Rowan
(UK) A/Prof Matthieu Schmidt
(France) Dr Paul Secombe

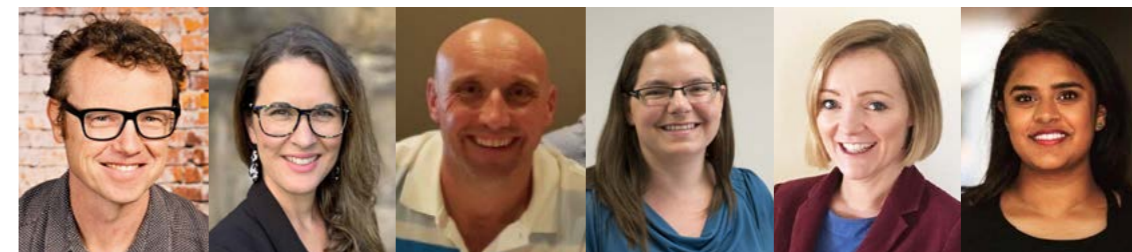


Prof Ian Seppelt Prof Markus Skrifvars
(Finland) Prof Ravi Tiruvoipati Dr Ryo Ueno Ms Tricia Williams

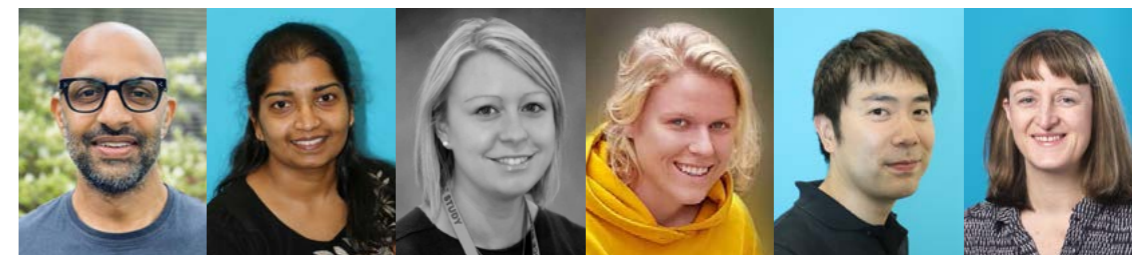


Dr James Winearls Prof Paul Young
(New Zealand)

ANZIC-RC Affiliates



Prof Adrian Barnett Dr Naomi Hammond A/Prof Stuart Lane Ms Kylie Lange Ms Liadain Reid Dr Praba Sekhar

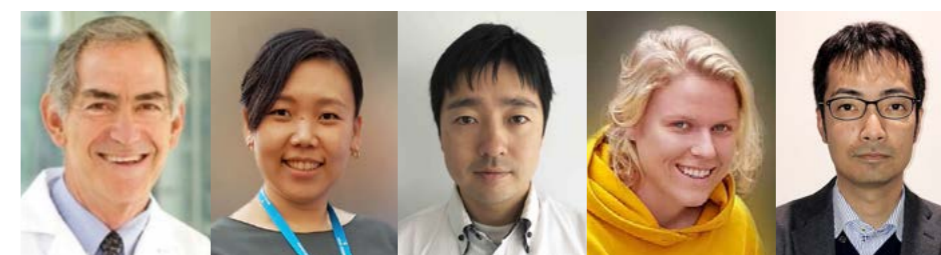


A/Prof Pratik Sinha Ms Janani Sivasathan Ms Christina Whitehead Ms Eveline Wiegiers Dr Fumitaka Yanase Ms Meredith Young

ANZIC-RC Visitors



Dr Guillaume Carteaux
(France) 2010-1 Prof Gilles Capellier
(France) 2011-2 Prof Kathy Rowan
(UK) 2013 and 2015 A/Prof Matthieu Schmidt
(France) 2013-4 Dr Aude Garnero
(France) 2013-4 Prof Theodore (Jack) Iwashyna
(USA) 2015



Prof Rob Sladen
(USA) 2017 Dr Tomoko Fujii
(Japan) 2018 Dr Shuji Okahara
(Japan) 2019 Ms Eveline Wiegiers
(Netherlands) 2019 Dr Katsunori Mochizuki
(Japan) 2019

International Presentations

Month	Conference	Location	Name	Title	Role/s
Jan	University of California, San Francisco, ICU Grand Round	San Francisco, USA	Bellomo R	The renin-angiotensin-aldosterone system (RAAS) in critical illness	Keynote Speaker
Feb	Annual Scientific Meeting of the Dutch Intensive Care Society	Amsterdam, The Netherlands	Bellomo R	1. The pathophysiology of septic acute kidney injury 2. Refractory distributive shock: recent advances ... 3. Delirium and sedation: dexmedetomidine	Invited Presenter
Feb	7 th Annual International ECMO Network Scientific Meeting	Barcelona, Spain	Burrell A	1. REDEEM; 2. BLENDER; 3. PRECISE; 4. SHERPA	Invited Presenter
Feb	7 th Annual International ECMO Network Scientific Meeting	Barcelona, Spain	Higgins L	1. Health Economics of ECMO 2. ECMO-Rehab (with C Hodgson)	Invited Presenter
Feb	7 th Annual International ECMO Network Scientific Meeting	Barcelona, Spain	Hodgson C	1. Health Economics of ECMO (Co-Chair) 2. EXCEL at 3 Years 3. Introduction of new EXCEL studies 4. ECMO-Rehab (with L Higgins)	Session Co-Chair, Invited Presenter
Mar	42 nd International Symposium on Intensive Care and Emergency Medicine	Brussels, Belgium	Bellomo R	1. Megadose vitamin C in sepsis 2. Natural language processing to characterize delirium 3. Frailty and persistent critical illness 4. Measure creatinine more frequently 5. Angiotensin II had additional properties 6. We should not abandon pragmatic trials 7. RRT choice may influence recovery 8. Intermittent dialysis is not as good as CRRT 9. Urinary PO ₂ 10. What to do about subsegmental PEs 11. ECMO: how big should the arterial cannula be? 12. Are antipsychotic drugs bad?	Invited Presenter
Apr	XIV International Symposium of Physiotherapy in ICU	São Paulo, Brazil (Virtual)	Serpa Neto A	Is There a Better PEEP?	Invited Presenter
May	XIX Sepsis International Forum ILAS Instituto Latino Americano de Sepse	São Paulo, Brazil (Virtual)	Serpa Neto A	How to Monitor Lung Mechanics?	Invited Presenter
May	XV Multiprofessional Intensive Care Symposium	Barretos, Brazil (Virtual)	Serpa Neto A	1. How and When to Believe in Scientific Evidence? 2. Effect of Mobilization 6 Months After Critical Illness	Invited Presenter
Jun	Collaborative Clinical Trials in Intensive Care Medicine (ICM)	Prato, Italy	Bellomo R	1. The Vitamin C Journey; 2. Italian RCTs Session (Chair); 3. START RCT Results	Session Chair, Invited Presenter
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Bernard S	1. EXACT RCT; 2. PATCH RCT Results	Invited Presenter
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Burrell A	1. REDEEM-RCT; 2. SHERPA ECPR RCT	Invited Presenter
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Cooper DJ	1. Successful Publishing: Thoughts from the Editor (NEJM) Session (Chair) 2. Implications from landmark RESCUE-ASDH (Randomised Evaluation of Surgery with Craniectomy for patients Undergoing Evacuation of Acute SubDural Haematoma) 3. Cardiac Arrest Session (Chair) 4. Successful Publishing: Intensive Care Medicine - insights from the Editor Session (Chair) 5. Blood Session (Chair)	Co-Convenor, Session Chair, Presenter
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Eastwood G	TAME RCT Results: Increased PaCO ₂ in Cardiac Arrest	Invited Presenter
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Higgins L	1. REMAP-CAP During COVID-19 (Chair); 2. ECMO-Rehab; 3. Economic Outcomes from ICU RCTs	Session Chair, Invited Presenter
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Hodgson C	1. Day 1 Hot Topics in ICU: Ice Bucket Challenges (Chair) 2. EXCEL Registry Outcomes 3. TEAM RCT: Increased Mobilisation in ICU 4. New Global AHRF Platform Session (Chair)	Session Chair, Invited Presenter
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	McQuilten Z	FEISTY RCT	Invited Presenter
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Nichol A	ANZIC-RC in Europe – REMAP-CAP	Invited Presenter
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Presneill J	Day 2 Hot Topics in ICU: Ice Bucket Challenges (Chair)	Session Chair
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Ridley E	1. ICU Outcomes and Economic Evaluation Results Session (Chair); 2. Implications of EFFORT Protein	Session Chair
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Rowan K	Patient/Public Engagement in UK ICU Research	Invited Presenter
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Seppelt I	1. SuDDICU RCT; 2. SuDDICU Genomics	Invited Presenter
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Serpa Neto A	SODA-BIC RCT: Bicarbonate for metabolic acidosis	Invited Presenter
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Udy A	1. Traumatic Brain Injury Session (Chair) 2. Sepsis Session (Chair) 3. Day 3 Hot Topics in ICU: Ice Bucket Challenges (Chair)	Co-Convenor, Session Chair
Jun	Collaborative Clinical Trials in ICM	Prato, Italy	Webb S	Learnings from REMAP-CAP (Multifactorial Adaptive Platform RCT for COVID and CAP)	Invited Presenter
Jun	Critical Care Reviews	Belfast, UK	Eastwood G, Nichol A, Bernard S	Results of the TAME cardiac arrest trial, investigating mild hypercapnoea post cardiac arrest	Invited Presenter

International Presentations (continued)

Month	Conference	Location	Name	Title	Role/s
Jun	Critical Care Reviews	Belfast, UK	Gruen R, Burns B, Bernard S, Hodgson C	Results of the PATCH-Trauma trial, investigating tranexamic acid in severe trauma	Invited Presenter
Jun	Critical Care Reviews	Belfast, UK	Hodgson C	TEAM trial, investigating early mobilisation in mechanically ventilated patients	Invited Presenter
Jun	ICC-CTN	Belfast, UK	Eastwood G	TAME Cardiac Arrest Trial	Invited Presenter
Jun	ICC-CTN	Belfast, UK	French C	EPO-Trauma	Invited Presenter
Jun	ICC-CTN	Belfast, UK	Higgins L	REMAP-CAP	Invited Presenter
Jun	ICC-CTN	Belfast, UK	Hodgson C	TEAM Trial	Invited Presenter
Jun	ICC-CTN	Belfast, UK	Nichol A	PRIME Ireland	Invited Presenter
Jun	ICC-CTN	Belfast, UK	Ridley E	Nutrition in Recovery	Invited Presenter
Jun	ICC-CTN	Belfast, UK	Webb S	REMAP-CAP – One Platform to rule them all	Invited Presenter
Jun	41 st Vicenza Course on AKI and CRRT	Vicenza, Italy	Bellomo R	1. Role of frequent creatinine measurement 2. Urinary PO ₂ monitoring 3. Extracorporeal blood purification in sepsis 4. The renin angiotensin system in critical illness 5. Regional practice variation in RRT: the lessons of STARTR-AKI 6. ADQI XXX – Adsorption in blood purification Hemadsorption in the intensive care unit	Invited Presenter
Aug	16 th World Intensive and Critical Care Congress (WICC 2023)	Istanbul, Türkiye	Eastwood G	The TAME Trial	Invited Presenter
Aug	Asia Pacific Intensive Care Symposium, SCIM/ANZICS	Singapore	Eastwood G	Acute Kidney Injury After Out-of-Hospital Cardiac Arrest: The TAME Trial	Invited Presenter
Aug	Asia Pacific Intensive Care Symposium, SCIM/ANZICS	Singapore	Udy A	1. Vitamin C in Sepsis: More Questions than Answers 2. There is no such thing as Mild, Moderate or Severe TBI	Invited Presenter
Nov	12 th EuroNeuro	Brussels, Belgium	Udy A	1. Brain Oxygenation 2. Brain Tissue Oxygen for All Severe Cases	Invited Presenter
Nov	XXVIII Brazilian Congress of ICM Associação de Medicina Intensiva Brasileira (AMIB)	Florianópolis, Brazil	Serpa Neto A	1. Transition to Assisted Ventilation 2. Ventilatory Drive and Muscular Effort 3. ICU in the Era of Digital Health: What to expect?	Invited Presenter
Nov	British Association of Critical Care Nurses (BACCN) Journal Club	Newcastle, UK (Virtual)	Eastwood G	Mild hypercapnia or Normocapnia after Out-of-Hospital Cardiac Arrest	Invited Presenter
Nov	Neuro Anaesthesia & Critical Care Society Study Day	UK (Virtual)	Udy A	Brain Oxygenation	Invited Presenter
Nov	Resuscitation Science Symposium American Heart Association	Philadelphia, USA (Virtual)	Eastwood G	TAME Cardiac Arrest Trial Results	Invited Presenter



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