It is with great pleasure that I introduce the 2013 research report for the Alfred Department of Intensive Care and Hyperbaric Medicine.

In 2013, the Alfred ICU Research Team had another successful and highly productive year, including 91 journal publications and major funding for exciting new collaborations.

Our involvement in the Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) European Union’s 7th Framework Programme Grant has secured Australian participation in a unique global TBI research effort that will provide Australian researchers with access to global expertise, open access databases and research platforms.

This led to a successful NHMRC grant, the Australia-Europe NeuroTrauma Effectiveness Research in TBI collaboration (OzENTER-TBI), that was funded to support Alfred and other Australian participation in CENTER-TBI. This program is being coordinated by the Monash ANZIC Research Centre and the Alfred ICU.

There was also the successful Monash Partners Academic Health Science Centre Seed Funding Grant to undertake the Recovery-ICU Project, which is the first part of a new program investigating long-term outcomes of critically ill patients in many key domains.

Both of our registrar candidates passed their College of Intensive Care Medicine (CICM) final exams, and again a remarkable number of international and major national presentations were delivered by Departmental researchers.

I would like to thank our whole team of dedicated intensivists, registrars, research fellows and coordinators for their enthusiastic collaboration on our remarkably prolific research projects and programs.

Particular thanks to Amanda Martin for producing this report and aggregating the extensive productivity data, Janine Dyer for daily support, and Professor Carlos Scheinkestel for his leadership.

Professor DJ (Jamie) Cooper
Deputy Director and Head of ICU Research
One of the joys of being the director of an ICU like the Alfred’s, is to see the Unit develop and progress, delivering the best possible patient care, achieving great patient outcomes, and excelling in research and education. But an even greater source of satisfaction is to see the personal growth and development of its staff.

With the assistance of professional development workshops for the group, and mentoring of new consultants, I believe the ICU consultants have become a high performing team, with the individuals not only highly skilled and capable in their own right, but working together to achieve outstanding outcomes. The Alfred ICU has been a “good outlier” for 4 years now because of its excellent patient outcomes. The “can-do” attitude and team work when faced with complex problems or high intensity workload is truly a joy to see.

The directors have recently commenced additional professional development using the Leadership Circle, in order to be able to provide enhanced leadership to help guide and develop the individuals in the Department and further improve our interactions, both internal and external.

In recent years, we have turned our attention to our trainees. We have put considerable effort in developing a comprehensive multi-faceted training program, consisting of lectures, bedside teaching, interactive group sessions, technical skills and exam training, and more recently, the introduction of multi-disciplinary simulation sessions, leadership and mentoring training and a website, which in its first 2 months had 29,560 page views by 4,728 individuals from 92 countries and continues to average >300 page views/day.

The case-mix in the department is unique, as is the exposure to 20 consultants, all of whom have university affiliations including 4 professors and 2 associate professors, and many being internationally recognised for their achievements.

With 1 supervisor of training and 4 assistants, consultant mentoring of Senior Registrars and Senior Registrar mentoring of Junior Registrars, we try to provide our trainees with a unique learning experience. Their growth after 1-2 years with us is a source of pleasure and pride. Pictured below are photos of recent trips overseas by some of our consultants. On the right is Jamie Cooper in Ireland, and on the left are Tim Leong and Deirdre Murphy in Singapore. On both occasions, they were greeted by an almost complete turnout of all our past trainees from those countries and were the recipients of great hospitality. I believe this is due to the high regard that our past trainees have for the Alfred ICU and us individually.

Under the guidance of Sharon Hade, the mentoring program has now been adapted and is being rolled out to the broad nursing leadership team with what we hope will be similar benefits.

The Alfred ICU places great importance on having a superior multidisciplinary team as it is core to our goal: the pursuit of excellence. The culture of continuous improvement, the pursuit of excellence, the high performing team and sheer hard work and tireless effort has resulted in The Alfred ICU winning a number of awards in the past 12 months.

These were:
- 2014 Winner of the Medical App Award at the Australian Mobile and App Design Awards
- 2014 Winner Metropolitan Health Workforce Initiative - Inaugural People in Health Awards
- 2013 Extracorporeal Life Support Organisation (ELSO) Life Support Centre of Excellence
- 2013 Wendy Swift Nursing Award (36th Annual Scientific Meeting Australian New Zealand Burns Association)
- 2013 First Prize and Honorary Mention in the Health Associated Infections (HAI) Awards
- 2013 Premier’s Award for Advancing Healthcare, Victorian Public Healthcare Awards (Alfred Award with ICU Contribution)

These add to the previous awards:
- Nurses League Award for Excellence in Patient Centred Care: 2013, 2014
• 2011 Gold Winner Excellence in Healthcare Outcomes, Victorian Public Healthcare Awards
• 2012 Senior Medical Staff Prize for Clinical Research
• 2012 Frank McDermott Award for Excellence and Impact
• 2012 Alfred Senior Medical Staff Trainee Research Scholarship

Alfred’s ICU has also had wide media coverage in the past 12 months. The ICU team participated in an SBS Insight program and were subsequently invited to present at the first Australian BOLD talks event at the Malthouse Theatre in Melbourne. Alfred ICU nurses discussed organ donation with The Age and Steve Bernard’s CHEER (CPR, Hypothermia, ECMO and Early Reperfusion) Study received very extensive media coverage with 30 media items in 14 days, as did Dave Pilcher for his participation in a study on Mortality Related to Severe Sepsis and Septic Shock Among Critically Ill Patients in Australia and New Zealand, 2000-2012.

The Alfred’s ICU is unique in Australasia. It has an extensive research program, which in the past 4 years, has been associated with >$5m grant money per year, >80 publications per year in peer reviewed journals and generated findings which in some cases have had major practice-changing effects, not only locally but internationally.

These findings are incorporated into day to day practice in the department which, at 37 funded ICU beds, is one of the largest in Australia and certainly has the most complex case-mix, providing most of the State Services for Victoria and a number of National Services.

They in turn are taught in our comprehensive education program for our trainees and also to Monash Medical students, and disseminated widely through our extensive post-graduate education program, which has >30 seminars, workshops and conferences per annum, over 59 days and in 2013 taught more than 1300 attendees not only from all over Australia but with an increasing number from overseas.

The ICU continues to be innovative as it enters new frontiers. The development of ECMO-CPR being one example. Since January 2012, 40 patients, who previously would have had a 100% mortality have been treated, with a 42.5% survival to discharge home.

Another significant development has been an iPad application for the ICU reception area. The initial homepage displays a short introductory video introducing the user to the ICU, explaining, in plain language, what it means to be critically unwell and providing a virtual video tour of the unit and what to expect when entering a cubicle, including some of the noises. Via a real time link to the roster, the user is informed which Intensivist is caring for their loved one by simply selecting the patient’s bed number. The application also contains a photo and brief biography for each Intensivist, and it enables requests for a family meeting to be relayed to the relevant Intensivist via SMS and e-mail. The user is then free to navigate through over 100 pages of information, such as nearby accommodation, public transport and eateries, with maps highlighting the location and contact details. Many of these pages can be printed wirelessly within the waiting room. A significant innovation is a “Procedures and Therapies” section describing all the common ICU interventions and their risks.

The iPad application was the winner of the Medical App Award at the 2014 Australian Mobile and App Design Awards.

Professor Carlos Scheinkestel
Director, Department of Intensive Care and Hyperbaric Medicine

Following my visit in 2011, in 2013 Irma Bilgrami and Steve McIgloughlin together with some ICU nurses participated in The Alfred Hospital Trans-Institutional Exchange with Longgang Central Hospital, Shenzhen, China, and Owen Roodeburg with some other ICU nurses visited the new Emergency Trauma Centre at Karapitiya hospital in Sri Lanka.

The team has now taught BASIC in Cambodia, Bali, New Zealand and Fiji, and in 2014, we are considering developing an affiliation with the Fijian National University.

ICU has every reason to look forward to another year of achievements and departmental and personal growth.
The Alfred ICU Research Team

Prof David Tuxen
Intensivist

Prof DJ (Jamie) Cooper
Intensivist

Prof Stephen Bernard
Intensivist

Prof Alistair Nichol
Intensivist (Honorary)

Prof Carlos Scheinkestel
Intensivist

Prof David Tuxen
Intensivist

A/Prof Warwick Butt
Intensivist

A/Prof Andrew Davies
Intensivist

A/Prof David Pilcher
Intensivist

A/Prof Robert Salamonsen
Intensivist (Emeritus)

Dr Irma Bilgrami
Intensivist

Dr Lisen Hockings
Intensivist

Dr Joshua Ihle
Intensivist

Dr Tim Leong
Intensivist

Dr Richard Lin
Intensivist

Dr Jason McClure
Intensivist

Dr Steve McGoughlin
Intensivist

Dr Deirdre Murphy
Intensivist

Dr Vinodh Nanjaya
Intensivist

Dr Paul Nixon
Intensivist

Dr Vincent Pellegrino
Intensivist

Dr Steve Philpot
Intensivist

Dr Owen Roodenburg
Intensivist

Dr Andrew Ross
Intensivist

Ms Shirley Vallance
Research Manager

Ms Jasmin Board
Research Coordinator

Ms Phoebe McCracken
Research Coordinator

Mr Charlie Cooper
Research Assistant

Ms Zoe Murray
Research Assistant

Dr Aidan Burrell
Senior Registrar

Dr Dashiell Gantner
Senior Registrar

Dr Cécile Aubron
Research Fellow

Dr Helen Ackland
Research Fellow

Dr Carol Hodgson
Research Fellow

Dr Olivier Huet
Research Fellow

Ms Bianca Levkovitch
Clinical Pharmacist

Ms Thuy Bui
Clinical Pharmacist

A/Prof Ibolya Nyulasi
Dietitian

Dr Audrey Tierney
Dietitian

Ms Emma Ridley
Dietitian

Ms Julia Price
Dietitian

Dr Alex Padiglione
Intensive Care and Burns Infections

A/Prof Geoff Frawley
Hyperbaric Medicine

Dr Andrew Fock
Hyperbaric Medicine

Dr Ian Millar
Hyperbaric Medicine

Dr Chin Wei Ch'ng
Hyperbaric Medicine

Ms Phoebe McCracken
Research Coordinator

Mr Charlie Cooper
Research Assistant

Ms Zoe Murray
Research Assistant
Teaching and Education

The Alfred ICU is a leading centre for education and in 2013 ran the following:

<table>
<thead>
<tr>
<th>Title</th>
<th>Dates</th>
<th>Duration (Days)</th>
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</thead>
<tbody>
<tr>
<td>Advanced Life Support (ALS)</td>
<td>11 - 12 Feb</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>25 - 26 Mar</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>20 - 21 May</td>
<td>2</td>
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<tr>
<td></td>
<td>22 - 23 Jul</td>
<td>2</td>
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<tr>
<td></td>
<td>19 - 20 Aug</td>
<td>2</td>
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<tr>
<td></td>
<td>23 - 24 Sep</td>
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<td></td>
<td>28 - 29 Oct</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2 - 3 Dec</td>
<td>2</td>
</tr>
<tr>
<td>Advanced Life Support (ALS)</td>
<td>13 - 14 Feb</td>
<td>2</td>
</tr>
<tr>
<td>Senior Registrars</td>
<td>21 - 22 Feb</td>
<td>2</td>
</tr>
<tr>
<td>Advanced Mechanical Ventilation Conference</td>
<td>20 Jun</td>
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<tr>
<td>Basic Assessment and Support in Intensive Care (BASIC)</td>
<td>5 - 6 Feb</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>6 - 7 May</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>5 - 6 Aug</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>6 - 7 Nov</td>
<td>2</td>
</tr>
<tr>
<td>Bronchoscopy for Critical Care</td>
<td>21 Jun</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1 Nov</td>
<td>1</td>
</tr>
<tr>
<td>Consultant Intensivist Transitioning (CIT)</td>
<td>19 Sep</td>
<td>2</td>
</tr>
<tr>
<td>Critical Care Ultrasound</td>
<td>29 May</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>11 Sep</td>
<td>1</td>
</tr>
<tr>
<td>ECMO: ICU and Perfusion</td>
<td>17 - 18 Apr</td>
<td>2</td>
</tr>
<tr>
<td>Adult ECMO Course</td>
<td>9 - 10 Oct</td>
<td>2</td>
</tr>
<tr>
<td>ECMO Cannulation</td>
<td>16 - 19 Apr</td>
<td>2</td>
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<tr>
<td></td>
<td>8 - 11 Oct</td>
<td>2</td>
</tr>
<tr>
<td>Critical Care Echocardiography</td>
<td>27 - 28 May</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>11 - 12 Sep</td>
<td>2</td>
</tr>
<tr>
<td>Haemodynamics Evaluation and Related Therapies (HearT)</td>
<td>29 - 30 Apr</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>24 - 25 Oct</td>
<td>2</td>
</tr>
<tr>
<td>Infectious Diseases and Critical Care</td>
<td>15 Nov</td>
<td>1</td>
</tr>
<tr>
<td>Transoesophageal Echocardiography (TOE)</td>
<td>4 - 5 Mar</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>21 - 22 Nov</td>
<td>2</td>
</tr>
<tr>
<td>Ventilator Waveforms Workshop</td>
<td>19 Jun</td>
<td>1</td>
</tr>
<tr>
<td>Total 57</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Annabelle Maclure (right) and Melinda Pacquola’s (left) presentation at the 36th Annual Scientific Meeting Australian New Zealand Burns Association (ANZBA) in Hobart won the Wendy Swift Award (best paper presented by nursing professionals). The project also involved Jason McClure, Paul Tynan and Bianca Levkovich.

In 2013, the Alfred ICU received an Extracorporeal Life Support Organization (ELSO) award for being a Life Support Centre of Excellence. Centre photo, Professor Carlos Scheinkestel and Ms Jayne Sheldrake with the award. ELSO is an international consortium of health care professionals and scientists who are dedicated to the development and evaluation of novel therapies for support of failing organ systems.

College of Intensive Care Medicine Exam Results

The following people passed the College of Intensive Care Medicine Exam in 2013:

- Paul Davies
- Chris Nickson
### Research Grants Active in 2013

#### ANTISEPSIS: Aspirin To Inhibit SEPSIS trial; an ASPREE substudy to measure benefit of low dose aspirin in prevention of severe sepsis
- **Grant type**: Project Grant NHMRC #1041986
- **Names of chief investigators**: Eisen D, Leder K, McInerney E, Wolfe R, Picher D, Woods R
- **$ received in 2013 by the Administering Institution**: $97,970
- **Years of funding**: 2013-2016
- **Total funding for duration of grant**: $391,879
- **Administering institution**: Monash

#### PATCH: Pre-hospital Antifibrinolitics for Traumatic Coagulopathy and Haemorrhage
- **Grant type**: Project Grant NHMRC #1048894
- **$ received in 2013 by the Administering Institution**: $543,788
- **Years of funding**: 2013-2016
- **Total funding for duration of grant**: $1,668,152
- **Administering institution**: NTRI

#### TRANSFUSE-RCT: Standard issue transfusion versus fresher red blood cell use in intensive care
- **Grant type**: Project Grant NHMRC #1020694
- **Names of chief investigators**: Cooper DJ, Nichol AD, French C, Street A, Bellomo R
- **$ received in 2013 by the Administering Institution**: $908,635
- **Years of funding**: 2012-2015
- **Total funding for duration of grant**: $2,761,870
- **Administering institution**: Monash (ANZIC-RC)

#### PHARLAP-RCT: MulticentreRCT of open lung strategy including Permissive Hypercapnia, Alveolar Recruitment and Low Airway Pressure in patients with ARDS
- **Grant type**: Project Grant NHMRC #1021203
- **Names of chief investigators**: Nichol AD, Davies AR, Hodgson CA, Bersten A, Fraser J, Cooper DJ
- **$ received in 2013 by the Administering Institution**: $248,076
- **Years of funding**: 2012-2015
- **Total funding for duration of grant**: $997,538
- **Administering institution**: Monash (ANZIC-RC)

### Research Grants Active in 2013 (continued)

#### INFORM: Informing Fresh versus Old Red Cell Management: A large simple phase III randomised controlled trial
- **Grant type**: Project Grant Canadian Institutes of Health Research
- **$ received in 2013 by the Administering Institution**: $401,573
- **Years of funding**: 2012-2015
- **Total funding for duration of grant**: $1,606,292
- **Administering institution**: McMaster University, Canada

#### AVOID: Air versus oxygen in myocardial infarction
- **Grant type**: Project Grant The Alfred Foundation
- **Names of chief investigators**: Bernard SA, Smith K, Cameron P, Bray I, et al
- **$ received in 2013 by the Administering Institution**: $99,346
- **Years of funding**: 2013-2013
- **Total funding for duration of grant**: $329,862
- **Administering institution**: Alfred

#### PHARLAP: A multi-centre RCT of Open Lung Strategy including Permissive Hypercapnia, Alveolar Recruitment, and Low Airway Pressure in patients with ARDS
- **Grant type**: Project Grant The Alfred Foundation
- **Names of chief investigators**: Davies AR, Nichol AD, Hodgson CA, Cooper DJ, Tuxen D, Higgins A
- **$ received in 2013 by the Administering Institution**: $40,270
- **Years of funding**: 2011-2013
- **Total funding for duration of grant**: $121,070
- **Administering institution**: Alfred

#### OUTCOMES from a multi-site RCT comparing regional and general anaesthesia for effects on neurodevelopmental outcome and apnoea in infants
- **Grant type**: Project Grant NHMRC #1021165
- **Names of chief investigators**: Bellomo R, Cameron P, Cooper DJ, Peake S, Webb S, et al
- **$ received in 2013 by the Administering Institution**: $171,895
- **Years of funding**: 2012-2013
- **Total funding for duration of grant**: $349,790
- **Administering institution**: Monash (ANZIC-RC)

#### AUS-ROC: Australian Resuscitation Outcomes Consortium Centre for Research Excellence
- **Grant type**: CRE NHMRC #1040971
- **Names of chief investigators**: CRE NHMRC #1029983
- **$ received in 2013 by the Administering Institution**: $241,256
- **Years of funding**: 2012-2017
- **Total funding for duration of grant**: $2,498,407
- **Administering institution**: Monash (ANZIC-RC)

#### EPO-TBI and POLAR: Program: Early Intervention to improve outcomes after TBI
- **Grant type**: Project Grant VNI #101612
- **Names of chief investigators**: Cooper DJ, Cameron P, Bernard S, Rosenfeld J, Nichol A
- **$ received in 2013 by the Administering Institution**: $156,575
- **Years of funding**: 2010-2017
- **Total funding for duration of grant**: $2,086,100
- **Administering institution**: Monash (ANZIC-RC)

#### Blood-CRE: Centre of Research Excellence for Patient Blood Management in Critical Illness and Trauma
- **Grant type**: CRE NHMRC #1029983
- **Names of chief investigators**: Bellomo R, Cooper DJ, Myburgh J, Finfer S
- **$ received in 2013 by the Administering Institution**: $500,000
- **Years of funding**: 2011-2015
- **Total funding for duration of grant**: $2,498,523
- **Administering institution**: Monash (ANZIC-RC)

#### CETOBR: Centre of Excellence in Traumatic Brain Injury Research
- **Grant type**: Centre of Excellence in Traumatic Brain Injury Research (VNI)
- **Names of chief investigators**: Gruen R, Rosenfeld J, Normar SJ, Bernard S, et al
- **$ received in 2013 by the Administering Institution**: $405,760
- **Years of funding**: 2012-2014
- **Total funding for duration of grant**: $1,226,636
- **Administering institution**: NTRI

#### NHMRC Practitioner Fellowship Level II
- **Grant type**: Fellowship NHMRC #1041922
- **Names of chief investigators**: Cooper DJ
- **$ received in 2013 by the Administering Institution**: $76,090
- **Years of funding**: 2013-2017
- **Total funding for duration of grant**: $380,450
- **Administering institution**: Monash (ANZIC-RC)

#### NHMRC Early Career Research Fellowship: ICU management and Tranexamic Acid for Coronary Artery Bypass Graft Surgery (ANGIC-RC)
- **Grant type**: Fellowship NHMRC #1035050
- **Names of chief investigators**: Hodgson C
- **$ received in 2013 by the Administering Institution**: $73,713
- **Years of funding**: 2012-2015
- **Total funding for duration of grant**: $294,892
- **Administering institution**: Alfred

#### Acute Care Fellowship Centre of Excellence in Traumatic Brain Injury Research
- **Grant type**: Fellowship TAC / NTRI / CETBR
- **Names of chief investigators**: Gruen R, Rosenfeld J, Normar SJ, Bernard S, et al
- **$ received in 2013 by the Administering Institution**: $100,000
- **Years of funding**: 2013
- **Total funding for duration of grant**: $100,000
- **Administering institution**: TAC / NTRI / CETBR

#### Alfred-Monash ICU Research Fellowship
- **Grant type**: Fellowship Alfred / Monash
- **Names of chief investigators**: Ackland H
- **$ received in 2013 by the Administering Institution**: $25,000
- **Years of funding**: 2012-2013
- **Total funding for duration of grant**: $50,000
- **Administering institution**: Alfred

#### Alfred-Monash ICU Research Fellowship (Post-graduate)
- **Grant type**: Fellowship Alfred / Monash
- **Names of chief investigators**: Ackland H
- **$ received in 2013 by the Administering Institution**: $20,000
- **Years of funding**: 2012-2013
- **Total funding for duration of grant**: $50,000
- **Administering institution**: Alfred

#### Travel Grant Monash University School of PHPM
- **Grant type**: Travel Grant Monash University
- **Names of chief investigators**: Aubrun C, Hodgson C
- **$ received in 2013 by the Administering Institution**: $1,800
- **Years of funding**: 2013
- **Total funding for duration of grant**: $1,800
- **Administering institution**: Monash (ANZIC-RC)

#### Supplemental Parenteral Nutrition in Critically Ill Patients: Pilot Randomised Controlled Study
- **Grant type**: Commercially Sponsored Trial Baxter Healthcare
- **Names of chief investigators**: Cooper DJ, et al
- **$ received in 2013 by the Administering Institution**: $30,000
- **Years of funding**: 2012-2017
- **Total funding for duration of grant**: $363,117
- **Administering institution**: Monash (ANZIC-RC)

#### Total funding for all grants: $6,881,856
#### Total funding for all grants: $29,963,900
Acknowledgement of Intensive Care medicine services and monitoring delivery hospitals from the 74 DonateLife to result in an organ donation admission for patients most likely and jurisdictional level of ICU Adult Patient Database by month – June 2014 to provide quarterly two year period from July 2012 ANZICS Centre for Outcome and Title Agency Chief Investigators Total Amount Administering Institution

**ANZICS Centre for Outcome and Resource Evaluation (CORE)** for a two year period from July 2012 – June 2014 to provide quarterly data extraction from the ANZICS Adult Patient Database by month and jurisdictional level of ICU admissions and death after ICU admission for patients most likely to result in an organ donation request, from the 74 DonateLife Hospitals

<table>
<thead>
<tr>
<th>Title</th>
<th>Agency</th>
<th>Chief Investigators</th>
<th>Years of Funding</th>
<th>Total Amount</th>
<th>Administering Institution</th>
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<tbody>
<tr>
<td>ANZICS-CORE to provide registry services and monitoring delivery of Intensive Care medicine throughout Australia and New Zealand</td>
<td>Jurisdictional Health Departments of Australia and New Zealand</td>
<td>Pitcher D, Hicks P, Slater A</td>
<td>2011 - 2013</td>
<td>$3,662,457</td>
<td>Australian and New Zealand Intensive Care Society (ANZICS)</td>
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Total $3,725,076


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<thead>
<tr>
<th>Month</th>
<th>Conference</th>
<th>Location</th>
<th>Name</th>
<th>Title</th>
<th>Role/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov</td>
<td>Australasian College for Emergency Medicine Annual Scientific Meeting</td>
<td>Adelaide, Australia</td>
<td>Bernard S</td>
<td>Post-arrest management</td>
<td>Invited Presenter</td>
</tr>
</tbody>
</table>
| Nov     | Resuscitation Science Symposium American Heart Association Annual Scientific Meeting | Dallas, USA      | Bernard S | 1. Pre-hospital intubation - A trauma perspective  
2. Therapeutic hypothermia after in-hospital cardiac arrest | Invited Presenter       |
| Nov     | 12th Congress of the International Society for Organ Donation and Procurement | Sydney, Australia | Pilcher D | Donation and Transplant Registries                                   | Invited Presenter       |
| Oct     | ANZICS Annual Scientific Meeting                                | Hobart, Australia | Aubron C | Comprehensive Epidemiology of Bacteriuria in Critically Ill Patients | Invited Presenter       |
| Oct     | International Conference for Emergency Nurses                   | Melbourne, Australia | Bernard S | Recent developments in resuscitation                                | Invited Presenter       |
| Oct     | Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) General Assembly | Antwerp, Belgium  | Cooper DJ | ANZIC Research Centre and National Trauma Research Institute (NTRI) | Invited Presenter       |
| Oct     | ANZICS Annual Scientific Meeting                                | Melbourne, Australia | Gantner D | Knowledge translation in the management of acute/severe TBI          | Invited Presenter       |
2. Heat up the ICU: Exercise Improves Survival  
3. Latest Ventilation Strategies and Emerging Trends | 1. Chair  
2. Invited Presenter  
3. Invited Presenter |
| Oct     | ANZICS Annual Scientific Meeting                                | Hobart, Australia | Pilcher D | 1. ANZROD (The Australian and New Zealand Risk of Death) Model – Is this the end of APACHE in Australasian ICUs?  
2. Mortality After ICU Admission - How low will it go over the next 30 Years?  
3. The Australian and New Zealand Risk of Death (ANZROD) Model May More Accurately Identify Outlier ICUs than Apache Ill-i on Funnel Plots of Standardised Mortality Ratios | Invited Presenter       |
| Oct     | ANZICS Annual Scientific Meeting                                | Hobart, Australia | Tuxen D  | 1. The future of recruitment: Beyond ARDS  
2. Is position important                                           | Invited Presenter       |
| Sep     | Annual Scientific Meeting of the Malaysian Society of Intensive Care | Kuala Lumpur, Malaysia | Tuxen D  | 1. When not to use NIV. Emerging Pattern of NIV Failure  
2. ECMO - Role in Respiratory Failure  
3. Were all the large RCTs on ALI really negative  
4. My ventilation strategies in the difficult to oxygenate/ventilate patient | Invited Presenter       |
| Aug     | ANZICS-CTG Winter Research Forum                                | Melbourne, Australia | Hodgson C | TEAM Phase IIIb study                                                | Invited Presenter       |
| Jun     | Collaborative Clinical Trials in Intensive Care Medicine        | Prato, Italy      | Cooper DJ | 1. Current fluid resuscitation – what we know now  
2. RELIEF – trial rationale and design  
3. What’s next from REVA (French clinical trials network)  
4. Why we need an ECMO RCT: EOLIA  
5. EPO-TBI in Europe and the Middle East  
6. POLAR-RCT in Europe | Conference Convener; Chair, Organising Committee  
1. Chair  
2. Chair  
3. Chair  
4. Chair  
5. Chair  
6. Co-Presenter |
| Jun     | Collaborative Clinical Trials in ICM Conference                 | Melbourne, Australia | Nichol A | 1. EPO-TBI in Europe and the Middle-East (Erythropoietin in traumatic brain injury - randomised controlled trial)  
2. POLAR-RCT in Europe (Prophylactic hypothermia trial to lessen traumatic brain injury - randomised controlled trial) | Invited Presenter       |
| Jun     | Alfred Mechanical International Ventilation Conference          | Melbourne, Australia | Pilcher D | Oscillators on Shaky Ground?                                        | Invited Presenter       |
| Jun     | College of Intensive Care Medicine Conference                  | Wellington, New Zealand | Pilcher D | Using the Australian and New Zealand Risk of Death (ANZROD) model for continuous monitoring of ICU outcomes – a case study of five hospitals | Invited Presenter       |
| Jun     | Mechanical Ventilation Research Meeting                        | Melbourne, Australia | Tuxen D  | PHAIRAP study control group                                         | Invited Presenter       |
| Jun     | Alfred Advanced Mechanical Ventilation Conference               | Melbourne, Australia | Tuxen D  | 1. Airflow Obstruction Mechanical Ventilation Waveforms  
2. Complications of Mechanical Ventilation | Invited Presenter       |
<table>
<thead>
<tr>
<th>Month</th>
<th>Conference</th>
<th>Location</th>
<th>Name</th>
<th>Title</th>
<th>Role/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jun</td>
<td>Asia Pacific Mycology Masterclass</td>
<td>Seoul, Korea</td>
<td>Tuxen D</td>
<td>Fungal Infections in ICU</td>
<td>Invited Presenter</td>
</tr>
<tr>
<td>Jun</td>
<td>Collaborative Clinical Trials in ICM Conference</td>
<td>Prato, Italy</td>
<td>Vaille S</td>
<td>1. EPD-TBI in Europe and the Middle-East (Erythropoietin in traumatic brain injury - randomised controlled trial) 2. POLAR-RCT in Europe (Proplylactic hypothermia trial to lessen traumatic brain injury - randomised controlled trial)</td>
<td>Invited Presenter</td>
</tr>
<tr>
<td>May</td>
<td>Australian Resuscitation Council Bi-annual Scientific Meeting</td>
<td>Melbourne, Australia</td>
<td>Bernard S</td>
<td>The Victorian Ambulance Cardiac Arrest Register - Lessons learnt over 10 years</td>
<td>Invited Presenter</td>
</tr>
<tr>
<td>May</td>
<td>Australian and New Zealand College of Anaesthetists Annual Scientific Meeting</td>
<td>Melbourne, Australia</td>
<td>Bernard S</td>
<td>Therapeutic hypothermia for neurological protection</td>
<td>Invited Presenter</td>
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<tr>
<td>May</td>
<td>Transfusion Outcomes Research Collaborative Annual Investigators Meeting</td>
<td>Melbourne, Australia</td>
<td>Cooper DJ</td>
<td>Blood-CRE</td>
<td>Invited Presenter</td>
</tr>
<tr>
<td>May</td>
<td>Euro-ELSO</td>
<td>Stockholm, Sweden</td>
<td>Pellegrino V</td>
<td>Infection treated with ECMO</td>
<td>Invited Presenter</td>
</tr>
<tr>
<td>May</td>
<td>4th International Society of Advance Care Planning and End of Life Care Conference</td>
<td>Melbourne, Australia</td>
<td>Philipot S</td>
<td>Fulfilling the end of life wish of an awake critically ill patient prior to withdrawal of organ support</td>
<td>Invited Presenter</td>
</tr>
<tr>
<td>Mar</td>
<td>ANZICS-RC Clinical Research: A Guide to the Dark Arts</td>
<td>Noosa, Australia</td>
<td>Cooper DJ</td>
<td>1. Why clinical work matters for researchers 2. What you need from your clinical department and what your clinical department wants from you 3. What you need from your University and what your University wants from you 4. Track record – what it is, how to build it, and how what contributes changes with success 5. How to choose what to research 6. Delegation: how to do it, when to do it</td>
<td>Invited Presenter</td>
</tr>
<tr>
<td>Mar</td>
<td>ANZICS-CTG 15th Annual Meeting on Clinical Trials in Intensive Care</td>
<td>Noosa, Australia</td>
<td>Cooper DJ</td>
<td>Blood-CRE</td>
<td>Invited Presenter</td>
</tr>
<tr>
<td>Mar</td>
<td>ANZICS-CTG 15th Annual Meeting on Clinical Trials in Intensive Care</td>
<td>Noosa, Australia</td>
<td>Gantner D</td>
<td>TBI Trips</td>
<td>Invited Presenter</td>
</tr>
<tr>
<td>Mar</td>
<td>ANZICS-CTG 15th Annual Meeting on Clinical Trials in Intensive Care</td>
<td>Noosa, Australia</td>
<td>Hodgson C</td>
<td>1. TEAM Program 2. PHARLAP Update</td>
<td>Invited Presenter</td>
</tr>
<tr>
<td>May</td>
<td>Macquarie School of Management Senior Executive Forum</td>
<td>Melbourne, Australia</td>
<td>Scheinkestel C</td>
<td>Through the Lens of Leaders</td>
<td>Invited Presenter</td>
</tr>
</tbody>
</table>