



MONASH  
University

# YEAR IN REVIEW 2017

Community Emergency Health  
and Paramedic Practice







# CONTENTS

Head of Department report	1	United States connections	19
Paramedic university challenge won by Monash University	2	3rd JUST paramedic conference	19
Older patients intervention	3	HECMA project	20
Honours scholarships	4	Tuwharetoa, New Zealand	
Three minute thesis success	5	CPR and AED defibrillation course	21
Inaugural undergraduate simulation competition	7	Meetings on prehospital care in Indonesia	22
Congratulations to our 2017 PhD graduands	8	Paramedic students on placement in Vietnam	22
Summer scholarship successes and reflections: Ashleigh Delorenzo	9	Research supervision	23
DCEHPP celebrates Ramadan Iftar	10	PhD students	24
Opening of postgraduate simulation centre	10	Masters by research students	26
DCEHPP receive new vehicles from RACV	11	Masters by coursework students	26
Heart Foundation Australia	11	Honours students	27
Inaugural DCEHPP research symposium	12	Grants	28
Restart your heart event	13	Government reports	28
DCEHPP continues its funding success	15	Peer reviewed publications	28
Accreditation	16	Peer reviewed conference presentations	32
MFB EMR program	17	Staffing	33
International guests	18		
EMS World Expo 2017	18		



## HEAD OF DEPARTMENT REPORT

Dear colleagues,

It is with great pleasure that I introduce the 2017 Year in Review for the Department of Community Emergency Health and Paramedic Practice (DCEHPP), Monash University. This review provides a summary of key activities in education, research, and engagement with our community and industry partners throughout the past 12 months.

Once again 2017 has been another very successful year for the Department, further strengthening our positioning and brand nationally and internationally. This year has seen an increase in staff and student success stories. We have seen students win simulation competitions locally and nationally further reinforcing the quality education they receive in their degree with us. Furthermore, we have seen staff also win national and international awards. Simon Sawyer's PhD work on intimate partner violence continues to win accolades; winning the 3 Minute Thesis challenge at Monash one such testament. Dr Ziad Nehme's rise as one of the country's brightest minds and research talents was aptly rewarded with an NHRMC Early Career Fellowship, and also the Australian Heart Foundation President's award for his research on cardiac arrest management and outcomes.

Our latest educational innovation includes a state-of-the art immersive simulation centre, officially opened on December 1; this will provide the Department with access to one of the few 360 degree immersive simulation labs in the country. This will not only provide our students with novel education, but will importantly provide the platform to undertake short courses in a range of technical and non-technical content areas. This will be important given the need for continuous professional development for paramedics following the announcement of national registration by mid-2018. Big thanks to Emma and Nathan Stam for their tireless work on this project.

In September we hosted our inaugural research symposium titled: Professionalisation of Paramedicine through Research. This two-day event showcased a number of keynotes and free papers from authors from Australia and Canada, and research workshops for emerging paramedic researchers. Plans are already underway for the second symposium later in 2018 and we look forward to making this symposium the number one scientific program in the country.

I hope you enjoy reviewing the DCEHPP 2017 Year in Review.

**Professor Brett Williams**

PhD, FPA

Head, DCEHPP

# PARAMEDIC UNIVERSITY CHALLENGE WON BY MONASH UNIVERSITY

Three years of hard work and study have paid off for Monash university students Benjamin Jenkins, Georgie Fraser, Nicholas Moffat and Ashleigh Delorenzo who recently represented Monash University DCEHPP at the Australia and New Zealand College of Ambulance Professionals University Challenge (ANZCP) held in Brisbane.

'Challenge' was a very accurate word as students (working in pairs) were assessed on their management of medical and trauma scenarios, along with a critical reasoning simulation and a clinical presentation on a topic of their choice.

Clinical scenarios requiring complex decision-making and thorough clinical assessment showed the level of experience and knowledge that is gained by students studying at Monash University. Clinical presentation topics varied greatly from post-partum haemorrhage to the use of drones to deliver defibrillators to cardiac arrest victims.

Monash University students Ashleigh and Nicholas were fortunate to win this category with their presentation on Double Sequential Defibrillation, a relatively new innovation for the cessation of refractory Ventricular Fibrillation. The overall challenge was also won by Monash Students Ashleigh and Nicholas who delivered a consistently high level of clinical expertise of all areas.



Challenge winners Nick Moffat and Ashleigh Delorenzo



# OLDER PATIENTS INTERVENTION

Given that a high percentage of paramedic workloads involve patients over 65 it is imperative that we prepare students to provide the best possible patient care to this special population of people.

Increasing awareness of older patient needs and enhancing the ability of students to communicate effectively and compassionately are key goals of the curriculum within the undergraduate program.

As part of her PhD research Linda Ross invited older people to play the role of patient for the second year cohort who were practising patient centred interviews. The students showed a greater understanding of the patient's perspective and improved interpersonal communication skills following this intervention.



Student interview with older patient



Student interview with older patient



# HONOURS SCHOLARSHIPS

DCEHPP was proud to offer two Honours research scholarships in honour of the late Dr Frederic (Ric) Bouvier. Ric was an icon in the evolution of ambulance services and the paramedic as a professional in Australia. He was previously been honoured by the Australian Medical Association (AMA) and the Royal Australian College of General Practitioners (RACGP) for his leadership in this area. Apart from his engagement and support of his community in the Latrobe Valley where he lived and practiced most of his professional life, he was the co-initiator of the Latrobe Valley Ambulance Service, member of its committee for over 25 years and was President of Victorian Ambulance Services Association (VASA) for 25 years, and importantly Ric helped establish Ambulance Officer School at Geelong in 1961.

Ric also established the direction for Ambulance Officer education in that era, remained a member of the Ambulance Officers' Training College (AOTC) Advisory Committee. He also lectured and examined at the AOTC for many years and influenced advancing the clinical practice of Ambulance Officers and their engagement in the community. In the late 1960's, he was ahead of his time in advocating that Ambulance Officers 'should have an education equivalent to that of nurses', and was a stronger supporter of the Institute of Ambulance Officers Association.

Without the leadership of people like Ric paramedic education and scholarship would not be possible to its standards as it is today in Victoria, Australia.

Congratulations goes to Melanie Jurgens and Rod Saunders for being the inaugural recipients. Melanie is exploring the paramedic perceptions of an Australian ambulance service graduate training program, while Rob is examining the relationship between paramedic students' scope of practice and actual practice in Victoria.



Honours scholarship recipient Melanie Jurgens and Director of Research Dr Kelly-Ann Bowles



## THREE MINUTE THESIS SUCCESS

Three minutes, one slide, one chance to sum up years of complex research.

Three Minute Thesis (3MT) is an annual competition that gives Graduate Research students the opportunity to present their thesis in just 3 minutes. Limited by time, the challenge lies in creatively condensing and conveying their research to a general, non-specialist audience. After a series of fiercely competitive faculty rounds, 13 finalists competed in the Monash 3MT final on 10 August at Clayton campus.

Paramedic PhD student, Simon Sawyer, emerged victorious as this year's 3MT Monash winner with his presentation 'Paramedics: A new resource for women experiencing Intimate Partner Violence'.

Simon's thesis focuses on equipping paramedics with the knowledge and resources to recognise and respond to Intimate Partner Violence (IPV). At a time when one woman dies in Australia each week at the hands of a current or previous partner, it's research that is especially timely.

*'As part of this educational response I have created the world's first guideline for paramedics to recognise and respond to IPV. This guideline can be easily modified for use anywhere in the world, and will allow paramedics to more effectively recognise the signs of violence and talk to patients about IPV, including connecting them with care and support'* Simon said.

Simon went on to represent Monash at the Asia-Pacific 3MT finals at the University of Queensland in September and performed extremely well.



Simon Sawyer presenting his 3MT







# INAUGURAL UNDERGRADUATE SIMULATION COMPETITION

This year, students from our Paramedic society PARASOC took the initiative to make contact with other Victorian universities. Through this contact, they organised a state-based scenario competition, pitting Victorian student paramedics against one another, to determine the best in the state.

Organised by our students, they made contact with Ambulance Victoria and had Paramedic Educators from the service attend the day to assess the students.

Ultimately, Monash University students were victorious with the winners being Claire Foley, Maddie Atkins and Kirsty Woods, who performed admirably and again showed the quality of Monash University.

These students received a prize each, courtesy of event sponsor ANZCP (Australia New Zealand council of Paramedics) and a trophy shield, which now resides at the victors campus.

With connections now made, we hope that this competition endures and continues for numerous years.



Competition winners from Monash: Claire Foley, Maddie Atkins and Kirsty Woods





Dr Oteir and one of his supervisors Dr Paul Jennings

## CONGRATULATIONS TO OUR 2017 PHD GRADUANDS

DECHPP congratulated our 2017 PhD graduands: Dr Ala'a Oteir, Dr Abdullellah Al Thobaity, Dr Shane Costello and Dr Judy Nixon for their recent PhD graduations.

Dr Oteir becomes the very first Jordanian paramedic to graduate with a PhD. In his doctoral research, Dr Oteir investigated the prehospital management and epidemiology of suspected Spinal Cord Injuries in Victoria. Dr Al Thobaity the first Saudi Nurse from Taif University explored the most desirable competencies for Saudi Nurses in disasters, while Dr Costello investigated the individual differences in personality and cognitive abilities. Finally, Dr Nixon completed her thesis on the validity and reliability of the UMAT and emotional intelligence.

Congratulations to all of our new PhD scholars.  
Acknowledgements and thanks to all of the supervisors involved in these projects.

# SUMMER SCHOLARSHIP SUCSESSES AND REFLECTIONS: ASHLEIGH DELORENZO

'Last year I was involved in the Summer Research Scholarship program with the Department of Community Emergency Health and Paramedic Practice. My project was run in conjunction with Ambulance Victoria (AV), exploring the characteristics of fixed-wing air ambulance transports.'

'Over the eight-week period I spent my time at AV headquarters working with the research team, as well as participating in research workshops at Monash. My project was then accepted for a poster presentation at the AeroMed Conference in New Zealand and the Student Paramedics Australasia Conference in Sydney, both of which I attended last year. More recently the manuscript was published in the Air Medical Journal.'

'Participating in the Summer Scholarship program has been an extremely positive learning experience. Working on this project enabled me to further my research skills, network with other professionals in the field and further my own personal development. I have gained experience in ethics applications, data cleaning and analysis as well as the publication process. The Department of Community Emergency Health and Paramedic Practice provided a supportive environment and have continued to encourage me to build on my research skills beyond this project. This has been a great opportunity that I am extremely grateful to have experienced and I would encourage all students to become involved with this.'

Ashleigh went on to present this research at the European EMS Conference in Copenhagen. This achievement was significant as she was one of the only paramedic students to present a research poster.



Summer student Ashleigh Delorenzo



## DCEHPP CELEBRATES RAMADAN IFTAR

DCEHPP staff and our three of our current Middle Eastern PhD students (Eihab Khasawneh, Saeed Alqahtani, Ahmad Alrawashdeh) celebrated our inaugural Ramadan Iftar at Peninsula Campus.

A range of food, both local and Middle Eastern were offered in celebration to our students and staff who had fasted throughout the day. We were also very pleased to be joined by Professor David Copolov (Pro Vice Chancellor, Major Campuses and Student Engagement) who was very pleased with the Peninsula Campus engaging in cultural activities such as a Ramadan Iftar.



One of the Arabic dishes enjoyed at our Ramadan Iftar

## OPENING OF POSTGRADUATE SIMULATION CENTRE

December 1st saw the official opening of the Postgraduate Simulation Centre at our Notting Hill Campus. This opening will provide the opportunity to showcase the state-of-the-art simulation centre after two years of planning and building.

The new Monash Postgraduate Paramedic Simulation Centre is a unique simulation centre that will offer both immersive and virtual simulation technologies for Monash University students. While purpose-built to enhance technical and non-technical skills for paramedic students, application to teach interdisciplinary health care teams are also possible. The Centre also provides Monash University with contemporary opportunities nationally and internationally for continuous professional development and short courses.



The simulated ambulance in our Postgraduate Simulation Centre

## DCEHPP RECEIVE NEW VEHICLES FROM RACV

Student paramedics were able to put their newly learnt skills to the test with two vehicles very generously donated by RACV. The two new vehicles include a Toyota hatchback and a Nissan people mover.

Equipment Officer Jo O'Reilly says the new vehicles are a perfect fit as the van allows for multi-casualty training exercises, and the hatchback allows extrication training through the back of the hatch, when the front of the vehicle has major collision damage.

Simulated exercises that take the students out of the classroom are invaluable for learning and consolidation of skills, due to a more realistic environment, practising skills in real time and promoting reflection of practice.



Paramedic students using the new training vehicles

## HEART FOUNDATION AUSTRALIA

Congratulations to Dr Ziad Nehme for being awarded the prestigious Heart Foundation President's Award for his work on helping more people survive from cardiac arrest in Australia. This is the very first time such an award has been granted to a paramedic researcher; a significant award not just for Ziad, but also for the paramedic profession in Australia.



Dr Nehme receiving his award



# INAUGURAL DCEHPP RESEARCH SYMPOSIUM

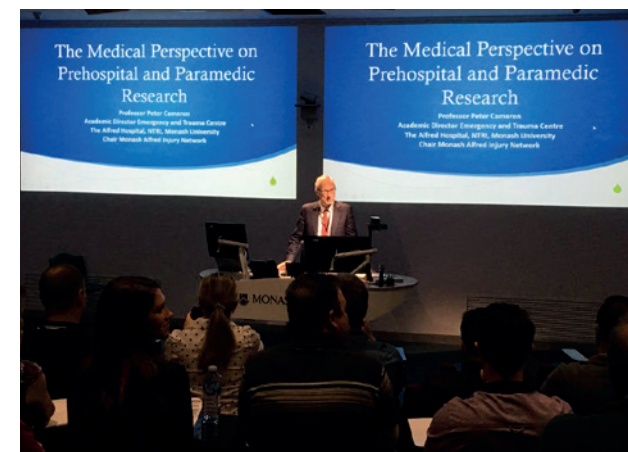
At the end of September, DCEHPP hosted our first research symposium titled 'Professionalisation of Paramedic Through Research Symposium'. This was a two day event that has held at the Peninsula campus of Monash University and was attended by over 40 researchers and clinicians.

Day 1 of the event provided attendees the opportunity to hear from leaders in the paramedic research environment, with the opportunity to also contribute their own research findings. The morning session included keynote speakers who have all contributed to the quality research previously and currently completed in the prehospital and emergency health field. This session was concluded with a panel discussion on a the current barriers and enablers of research for paramedics. The afternoon session gave all researchers (novice through to experienced) an opportunity to share their work in oral presentations and/or research posters.

Day 2 involved research skills sessions facilitated by a range of academic and professional staff. This was run alongside the School of Primary and Allied Health Care Research Conference. These skills sessions included topics such as 'Structuring a Systematic Review', 'How to complete advanced literature searching' and 'What do I need in my Ethics application'.

The symposium was aimed at all levels of paramedics (students to intensive paramedics) and those working in the emergency health field, as well as higher degree by research students and academics.

It was a fantastic symposium and we are all looking forward to making it bigger and better in 2018.



Professor Peter Cameron presenting his research

# RESTART YOUR HEART EVENT

The Monash University DCEHPP was delighted to collaborate with Ambulance Victoria for this year's 'Restart a Heart Day' on 16 October. In total, forty of our paramedic students and five academics volunteered their time to teach bystander CPR (hands only CPR) and AED use to our local communities, as part of Restart a Heart Day. Bystander CPR and AED use has been shown to double survival rates to hospital discharge, for persons suffering an out of hospital cardiac arrest. Research has estimated that for each minute a person is in cardiac arrest and does not receive CPR, their chances of survival decrease by 10%. In reality, this means that if a person in cardiac arrest has not received bystander CPR, the chances of a paramedic being able to revive them is greatly reduced.

In preparation for 'Restart a Heart Day', Ceinwen Rataj, a Community Educator from Ambulance Victoria's Community Education and Engagement Department and Brian Haskins, Monash Paramedic Lecturer, ran a number of 'Train the Trainer' sessions at the Peninsula Campus, to show the student paramedics how to engage with the public and teach bystander CPR and AED use.

On Restart a Heart Day, Monash paramedic students and staff, ran CPR training events at Clayton and Peninsula Campuses, Bayside Shopping Centre in Frankston, the Frankston Council Chambers and in the evening at the Frankston Pier. We were very fortunate to have Jennifer Dordevic and Helen Powell who coordinate First Aid Programs at Monash and Ceinwen Rataj from Ambulance Victoria join us for the Clayton and Bayside events respectively. In total between 250 and 300 people were taught bystander CPR and AED use by Monash paramedic students and staff on Restart a Heart Day.

This event was a wonderful opportunity for Monash paramedic students to give something back to their local communities, while practising their communication skills and embracing the concept of paramedic lead community / public health initiatives. Teaching the public how to perform bystander CPR and to use public access AEDs is the most effective way we can increase the survival rates for out of hospital cardiac arrests.

Thank you to all the paramedic students and staff who gave up their time to make Restart a Heart Day such a wonderful success and a valuable experience. As a result, we are committed to continue to facilitate our students to teach bystander CPR and AED use to our local communities, making 'Restart a Heart Day' into 'Restart a Heart Year'.



The DCEHPP team at Frankston Shopping Centre





# DCEHPP CONTINUES ITS FUNDING SUCCESS

## Mental health of law students

Prof Brett Williams from the Department of Community Emergency Health and Paramedic Practice, and Dr Becky Batagol, and Dr Adiva Sifris from the Faculty of Law have been successful in obtaining \$34,000 in funding to continue their research on the mental health of law students at Monash University. This funding will extend research from work undertaken in 2015 that found 259 undergraduate law students self-reporting alarmingly high levels of mental ill-health (depression, anxiety and stress) in comparison with students at other Australian law schools.

This was undertaken using the DASS-21 tool, a validated clinical and research tool to measure levels of depression, anxiety and stress. Results were alarming from the perspective of the mental health of law students at Monash in 2015.

This new funding will now explore identifying strategies or interventions for redress/reduction in stress/anxiety/depression.

## Strengthening partnerships

Dr Kelly-Ann Bowles (DCEHPP), Prof Brett Williams (DCEHPP), Nathan Stam (DCEHPP), Prof Terry Haines (Physiotherapy), Dr Cylie Williams (Peninsula Health) and A/Prof Stephen Maloney (Physiotherapy) have recently been awarded \$15,000 under the 2017 Supervisor Development Grant funding round.

Their project will be looking at strengthening supervisory partnerships with our Health partners. The proposal outlines a measured approach to engaging external supervisors and developing skills commensurate with Monash University expectations. As Monash continues to develop relations with more industry partners, the approaches adopted by this team to close skills and expectations gaps between Monash supervisors and their industry colleagues will have the potential to be highly instructive for other academic units.

## Collaboration with the Sax Institute

A team from the Department of Community Emergency Health and Paramedic Practice, Turning Point and the Department of General Practice were recently commissioned to complete a Rapid Review of the literature for the NSW Ministry of Health via the Sax Institute.

The team includes Prof Brett Williams, Prof Dan Lubman, Dr Kelly-Ann Bowles, Dr Samantha Chakraborty, and Ms Bronwyn Beovich. It is intended that the review will be used by the NSW Ministry of Health to identify and describe the components of best practice models of residential rehabilitation services for women. The information about such services will be used to develop tender specifications for new residential rehabilitation services that will be contracted with NGOs in 2017.

The review will also be used by the Alcohol and Other Drugs Branch to inform Ministry staff, LHD staff, and agencies providing residential rehabilitation services with the aim to improve knowledge about effective models of care, and inform possible approaches to evaluation of existing models, particularly where it is intended that services will be contracted. The completion of the review was worth \$32,000 and is a great start for the planned Centre for Addiction Research and Recovery, which is to be based at the Peninsula Campus.

## Intimate partner violence

Simon Sawyer and staff from the Department of Community Emergency Health and Paramedic were recently successful in obtaining funding from the School of Primary and Allied Health Care for the following project: 'An outcome measure for intimate partner violence educational interventions'. The impact of the project is significant. Intimate partner violence (IPV) is a leading contributor to death and illness for women. The healthcare sector response centres on improving the education of practitioners to recognise and refer patients to care and support. The evaluation of educational interventions is problematic due to a lack of robust outcome measures.

This project aims to create a new outcome measure to measure the impact of educational interventions on the knowledge, attitudes and skills of healthcare students and professionals. Currently there are no tools with reported psychometric testing demonstrating they are robust measures of the knowledge, attitudes and skills for healthcare professionals in Australia. The project will be completed in 12 months and outcomes will allow other healthcare disciplines across the School and University using IPV educational interventions access to a valid and reliable measure.

## International funding

Prof Brett Williams and Dr Kelly-Ann Bowles were recently awarded a grant to run a project named 'Elevating UL's Paramedic Studies programme through reciprocal knowledge and information sharing with one of the leading paramedic departments in the world'.

This grant is funded by the International Activity Challenge Fund 2017/18, with the University of Limerick, Ireland.





Active learning to improve clinical skills

## ACCREDITATION

In August, the DCEHPP hosted the Council of Ambulance Authorities (CAA) accreditation site team at Peninsula Campus for the Bachelor of Paramedicine re-accreditation.

The two-day visit included interviews with senior Faculty staff (Professor David Copolov [Pro Vice-Chancellor, Major Campuses and Student Engagement] and Professor Grant Russell [Head, School of Primary and Allied Health Care]) as well as interviews with DCEHPP staff, students, sessionals and alumni.

The visit also included an overview of the new immersive simulation centre and postgraduate facilities at Notting Hill. Over the two-days, the site team were provided background on the Bachelor Paramedicine, DCEHPP's strategic and marketing plan, clinical placements and new service models, pedagogical and assessment innovations, student welfare and OH&S and research growth and capacity.

The site team were extremely impressed with all facets of our program, the staff morale and enthusiasm and openly stated our standing as national (and international) leader in paramedic education and research. We have been granted accreditation until 2022. A great achievement and testament to everyone's commitment to our program, university and profession.

## MFB EMR PROGRAM

The Emergency Medical Responder (EMR) program provides early intervention within the community and responds to over 6000 calls per year. The importance of early CPR and defibrillation in a cardiac arrest event and the role the first responder plays within the community can be highlighted with the over 250 lives saved since the program was initiated.

This year saw the Department of Community Emergency Health and Paramedic Practices' EMR team continue to provide training to the EMR programs to the Metropolitan Fire Brigade. The first half of the year saw the last of the individual Metropolitan Fire Brigade (MFB) and Country Fire Authority (CFA) recruit courses. In the latter half of the year the team piloted the facilitation of the EMR competencies into new Victorian Recruit Firefighter Course (VRFC) that was conducted at the Victorian Emergency Management Training Complex in Craigieburn. The EMR retention and recertification programs continued to be conducted at the MFB fire training facility in Burnley.

The EMR training for 2017 saw 886 firefighters receive training or recertification in the following areas. First aid and EMR initial skills acquisition (211 fire fighters), EMR Retention stage (226 MFB & CFA fire fighters), Secondment program (5 fire fighters) and the recertification of 444 EMR trained fire fighters.

The DCEHPP EMR team has continued its partnership with the Emergency Responder Program throughout 2017, by providing interactive, practical and contemporary education and training that will support the EMR program into the future. The expansion state wide of the career firefighter first responder model will continue in 2018.



MFB Emergency Responder students



## INTERNATIONAL GUESTS

DCEHPP were privileged to host Yu-Tung Chang (Jack) and Dr Tsai from Far Eastern Memorial Hospital, New Taipei City, Taiwan in October. This one-week visit included tours of the Peninsula Campus, DCEHPP facilities, Ambulance Victoria (Headquarters, Communications, and Air Ambulance), The Alfred, and Metropolitan Fire Brigade. We look forward maintaining our relationship with the Far Eastern Memorial Hospital and hope to explore new opportunities and collaborations in 2018.



Dr Tsai, Yu-Tung Chang and DCEHPP Academic Brian Haskins, completing an Emergo Train exercise

## EMS WORLD EXPO 2017

EMS World Expo is the largest EMS (paramedic) event in North America. Taking place in October at Las Vegas in 2017, the expo attracted over 5,000 attendees from more than 40 countries.

The Expo contained a research stream, the International Scientific EMS Symposium, which was facilitated by the Prehospital Care Research Forum at UCLA. Simon Sawyer presented an oral and poster presentation on his PhD research on the creation of a guideline for the paramedic response to intimate partner violence. Simon was able to disseminate his research to US practitioners, as well as a number of international researchers. Simon was also awarded the 'best speaker award' for conference.

Other presenters described their research on a wide variety of topics, with standout presentations on cardiac arrest outcomes, the management of spinal cord injuries and the ability of paramedics to manage penetrating trauma.



EMS World Expo

## UNITED STATES CONNECTIONS

Linda Ross spent several weeks in the US this year supported by an Office of Learning and Teaching Education Focused Support Grant and the department.

In San Francisco she presented her PhD research at the International Association of Gerontology and Geriatrics World Congress and toured and in November met with staff at the Institute on Aging. She also toured and discussed future collaborations with the Director of the Community College of San Francisco Paramedic Program. In Washington she presented at the National Association of Emergency Medical Services Educators Conference and established international connects including American, Canadian and Irish paramedic academics and researchers.



Linda Ross at the Institute of Aging, San Francisco

## 3RD JUST PARAMEDIC CONFERENCE

DCEHPP had the honour to again co-host the 3rd Paramedic Conference 2017 at the Jordan University of Science and Technology, in November.

The conference titled 'Professionalism and Research' was another excellent symposium and opportunity to bring together paramedics, university academics, paramedic students and industry partners from Jordan and other Gulf states.

The two-day conference included a number of keynotes from DCEHPP as well as other free papers from other speakers from Jordan and Saudi Arabia. Day two included student research posters and small workshops as well as the establishment of a research agenda facilitated by DCEHPP faculty staff.



Professor Brett Williams with staff from JUST



## HECMA PROJECT

The Department of Community Emergency Health and Paramedic Practice (DCEHPP) continued to develop a new Health, Emergency Care and Medical Applications (HECMA) program for the Institute of Applied Technology (IAT) in Abu Dhabi. The Project commenced in 2015 and comprises two components: 'Health and Well-being,' and 'Emergency First Responder (EFR).' Each component consists of five Modules and is produced in both English and Arabic. A set of short videos have also been developed to support the EFR Modules.

The goals of the program are to increase health literacy, improve self-efficacy, enhance social responsibility, promote advocacy, handle emergencies safely and introduce students to the health sector. The program is already being rolled-out to Grade 10 and 11 students in schools in the Emirate of Abu Dhabi.

Rod Mason from the Department of Community Emergency Health and Paramedic Practice (DCEHPP) has been project manager for the last three years, and has been working with a number of staff members to develop the program. Toni Gray and Lynne Hanlon completed the writing of the Health and Wellbeing Modules earlier this year. Alison Kuen then joined the team in April and has since been responsible for fine-tuning the Modules based on feedback from the Client. As part of this on-going process, Alison spent a month in Abu Dhabi working alongside staff from IAT. Des Vernon continued to provide expertise in the area of instructional design along with overall responsibility for setting-up all draft materials in the agreed Module format.

Rod Mason took on responsibilities to fine-tune and further develop the EFR Modules based on Client feedback. Dr Christine King joined the team in June, and has since been responsible for proof reading and the final desk-top publishing of all 10 Modules prior to delivery to the Client.

The main focus this year was to develop/revise and finalise all 10 Modules. The final five Modules were delivered to the Client on 29 October. The contract also includes a requirement for the provision of professional development in the form of EFR train-the-trainer programs to key teaching staff in Abu Dhabi.



DCEHPP staff Lisa Sarris and Chloe Abel at the 'Train the Trainer' workshop in Abu Dhabi

## TUWHARETOA, NEW ZEALAND CPR AND AED DEFIBRILLATION COURSE

Ngati Tuwharetoa is the sixth largest Iwi (Marae tribe) in New Zealand, located in the centre of the North Island of New Zealand. They are passionate about improving the health of the Tuwharetoa people. The distance from ambulance stations to many of the Tuwharetoa Marae is substantial, resulting in lengthy delays in ambulance arrival times. The need for automated defibrillators to be located on all Marae or in significant locations within the community surrounding the Marae was therefore identified. Tuwharetoa requested that Janet Curtis, Lecturer – International Projects within the Department of Community Emergency Health and Paramedic Practice, assist with the first set of courses.

A CPR and AED course was designed and piloted with the Ariki (Chief) office and several Marae to ensure the content met the needs of the Iwi. The focus was to be on practical hands-on training ensuring participants were not overwhelmed with a lot of written information. The pace of the training had to ensure participants were given sufficient time to discuss important cultural issues that may arise when doing CPR, and that they would leave feeling confident with their newly acquired skills.

Funding to purchase AED defibrillators and to run 10 courses for members from 20 Marae was received from Tuwharetoa Trust Board and Mercury Energy. The first official course was held in March 2017 at the Waitetoko Marae. Participants came from Waitetoko, Poukura and Hikairo Marae. Janet was assisted by Teresa Chapman, a Tuwharetoa member. Cultural protocol was adhered to on the Marae with karakia (prayer) at the start and end of each day. Trainees which included Kaumatua (Elders) shared in lively discussion, some of which addressed important ethical and cultural issues. Everyone in attendance was actively involved and showed great technique in CPR.

Feedback from the participants indicated all intended outcomes were met with comments such as 'I feel more confident now. Should someone need assistance, I feel I am able to help. Thanks so much' to 'Cool! I found that I could understand (the material)' and 'Wonderful trainers – the course was not regimented'; and finally 'Very important matauranga (knowledge, wisdom, understanding, skill) that we learnt today'.



DCEHPP staff member Janet Curtis, with course participants



## MEETINGS ON PREHOSPITAL CARE IN INDONESIA

DCEHPP Paramedic Lecturer Brian Haskins travelled to Jakarta recently where he met with both public and private providers of prehospital emergency care. The meetings were coordinated by Selvi Tanggara, Monash's Chief Representative in the Jakarta Office and Mr. Suryanto, who has just completed his PhD which Monash University, in which he investigated the delivery of Prehospital Care in Indonesia.

Our meeting schedule included visits with Dr Budi and Dr Liato and the 119 National Call Centre, and the Jakarta 119 Emergency Ambulance Service. Other visits included meeting Professor Aryono D Pusponogor, founder of the 118 Ambulance Service Foundation, Dr Teddy Prasetyo, Chairman of ICTEC Training Centre, and finally D.G Savitri Wiragadikusumah from Medic One.

We sincerely thank our hosts during our visit to Jakarta.

## PARAMEDIC STUDENTS ON PLACEMENT IN VIETNAM

Paramedic lecturer Brian Haskins travelled to Vietnam in November with 10 Monash students taking part in the Interprofessional Placement in Vietnam from the Faculty of MNHS. Brian accompanied the students during their orientation week prior to their clinical placements.

The orientation, organised by Scope Global our in country partners, helps the students adjust to life in Vietnam with culture awareness lessons, Vietnamese lessons and visits to their three clinical placement sites in Ho Chi Minh City, the Oncological Hospital, the Orthopaedic & Rehab Hospital and the University Hospital. Clinical placement days are scheduled for 4 days a week, which leaves long weekends for traveling and experiencing the culture of Vietnam. The students complete reflective practice assignments during their placements to help them inform their understanding of other healthcare professionals, the Vietnamese healthcare system and their own clinical practice. Next year Interprofessional Placements will be available in both Vietnam and Cambodia.

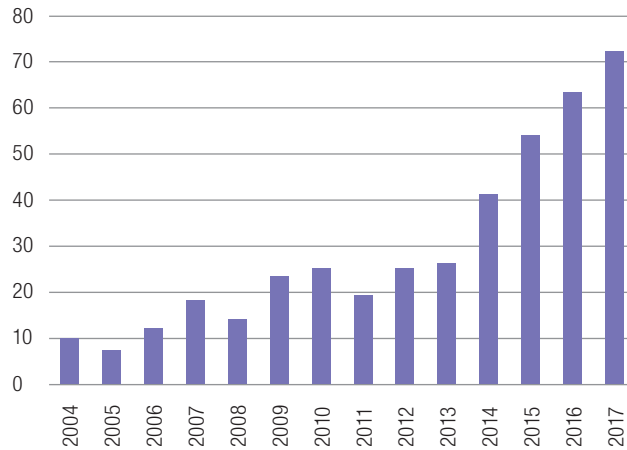


Visit to HCNC Orthopaedics and Rehabilitation Hospital with Dr Thuy Duong

## RESEARCH SUPERVISION

Currently we supervise 37 PhD and other research students, a number that reflects the maturity of not just our Department but the paramedic profession more broadly in Australia. Again, we see our peer-reviewed publications improve on last year's output, and have been associated with over \$3M in national and international funding.

DCEHPP C1 PUBLICATIONS



It's a great time to do research with us; and a privilege to be developing research leaders in other international countries where EMS is still developing. Our research students are investigating a range of important topics related to EMS and out-of-hospital settings; these are outlined below.





# PhD STUDENTS

STUDENT NAME	MAIN SUPERVISOR	ASSOCIATE SUPERVISOR	PROJECT TITLE
Ahmad Alrawashdeh	Dr Paul Jennings	Professor Brett Williams, Dr Dion Stub, Ziad Nehme	Prehospital management of STEMI patients
Ben Meadley	Dr Kelly-Ann Bowles	Professor Karen Smith, Associate Professor Maxine Bonham, Dr Luke Perraton, Dr Joanne Caldwell Odgers	Nutrition, sleep, nutrition and injury in Australian paramedics
Brendan Shannon	Dr Kelly-Ann Bowles	Dr Cylie Williams, Professor Karen Smith, Dr Nadine Andrews	What are the societal and cost benefits for health service providers introducing a care diversion program in a community health setting?
Corrine Hoo	Associate Professor Ted Brown	Professor Brett Williams	Development of a Clinical Reasoning Tool
Daniel Cudini	Professor Brett Williams	Dr Paul Jennings, Professor Stephen Bernard, Professor Karen Smith	Pre hospital assessment and management of Severe Sepsis and Septic Shock.
David Page	Professor Brett Williams	Dr Paul Jennings	Instruction and measurement of paramedic student competency
Eihab Khasawneh	Professor Brett Williams	Dr Cameron Gosling	Maths anxiety and drug calculation errors
Janet Curtis	Dr Paul Jennings	Professor Michael O'Driscoll	A mixed methods investigation into the effectiveness of workplace bullying interventions in a New Zealand ambulance service.
Josephine McGuinness	Dr Kelly-Ann Bowles	Dr Julia Morphet, Dr Mehmet Ozmen	Predictive factors for re-admission to hospital for older Australian
Justin Hunter	Professor Brett Williams	Dr Michael Porter	Crew Resource Management training in EMS
Katie Palmer	Dr Kelly-Ann Bowles	Dr Julia Morphet, Associate Professor Rebecca Lane	Evidence based exercise prescription for chronic heart failure patients attending community rehabilitation programs
Linda Ross	Professor Brett Williams	Dr Paul Jennings	Investigating the psychosocial needs of older adults in the out of hospital environment and building the capacity of paramedics to meet these needs
Mitchell Sarkies	Professor Terry Haines	Dr Kelly-Ann Bowles, Dr Elizabeth Skinner, Dr Jenni White	Translating Health Service Research into Practice: Weekend Allied Health Hospital Service Provision.
Narelle Dalwood	Dr Cylie Williams	Dr Kelly-Ann Bowles, Dr Felicity Blackstock	What is the impact on educational outcome for student using masking during simulation training?

STUDENT NAME	MAIN SUPERVISOR	ASSOCIATE SUPERVISOR	PROJECT TITLE
Pieter Francois Fouche	Dr Paul Jennings	Professor Stephen Bernard, Professor Karen Smith	Rapid Sequence Intubation in Out-of-Hospital Non-Traumatic Brain injuries
Rod Mason	Professor Brett Williams	Dr John Roodenburg	Cognition diversity in undergraduate paramedic students
Romi Haas	Professor Terry Haines	Dr Kelly-Ann Bowles, Associate Professor Lisa O'Brien	Weekend Allied Health Services in Patients Undergoing Elective Lower Limb Joint Replacement Surgery
Saeed Alqahtani	Professor Brett Williams	Dr Ziad Nehme, Professor Karen Smith	Exploration of Saudi Arabic paramedic workplace experiences
Simon Sawyer	Professor Brett Williams	Professor Jan Coles, Dr Angela Williams	The prehospital response to intimate partner violence
Stephen Burgess	Dr Shane Thomas	Dr Peteris Darzins	Identifying the health needs of older people living in the community
Susan Irvine	Professor Lisa McKenna	Professor Brett Williams	Near Peer Teaching in Medical and Nursing Education
Talal Mamdouh AlShammari	Professor Brett Williams	Dr Paul Jennings	Paramedic Core Competencies for Saudi Arabia
Waleed Almazy	Professor Brett Williams	Associate Professor Virginia Plummer	Disaster preparedness in Saudi Arabia



## MASTERS BY RESEARCH STUDENTS

STUDENT NAME	MAIN SUPERVISOR	ASSOCIATE SUPERVISOR	PROJECT TITLE
Sarah Tinali	Professor Terry Haines	Dr Kelly-Ann Bowles	Occupational drivers and low back pain
Simone Cranage	Dr Cylie Williams	Dr Luke Perraton, Dr Kelly-Ann Bowles	Effects of footwear on gait in toddlers and early walkers

## MASTERS BY COURSEWORK STUDENTS

STUDENT NAME	MAIN SUPERVISOR	ASSOCIATE SUPERVISOR	PROJECT TITLE
Alison Winnall	Dr Kelly-Ann Bowles		What is the epidemiology of paediatric seizures for Ambulance Victoria?
Andrew Osborne	Dr Kelly-Ann Bowles		Success and complications of pre-hospital paediatric intubation
Daniel Barron	Dr Kelly-Ann Bowles		The Impact of Socioeconomic Status on Paediatric Presentations of Asthma to Ambulance Victoria
Matthew Stewart	Dr Kelly-Ann Bowles		What is the prevalence of paediatric patients suffering hypoglycaemia in the pre-hospital setting?

# HONOURS STUDENTS

STUDENT NAME	MAIN SUPERVISOR	ASSOCIATE SUPERVISOR	PROJECT TITLE
Brendan Shannon	Dr Paul Jennings	Dr Kelly-Ann Bowles, Alexander Olausson	What is the effect of the implementation of guidelines on paramedic initiated non transportation of patients?
Dale Oldis	Linda Ross	Dr Cameron Gosling	The safety of Midazolam in the pre-hospital setting: A comparison of weight based vs fixed intramuscular doses in the adult population
Emma Matas-Bourke	Dr Kelly-Ann Bowles	Associate Professor Stephen Maloney	Evidence based practice conversations during clinical placement for paramedic students
Erica Ray	Dr Kelly-Ann Bowles	Matthew Stewart	What are the emergency health needs of prison inmates and staff
Melanie Jurgens	Dr Kelly-Ann Bowles	Professor Brett Williams, Lauren Olney	Paramedic perceptions of an Australian Ambulance Service graduate training program
Mike Bowen	Professor Brett Williams	Dr Luke Stanke	Professional behaviour evaluations amongst paramedic students
Rob Sanders	Dr Kelly-Annn Bowles	Linda Ross	What do undergraduate students perceive the paramedic scope of practice to be, and does this change over their undergraduate program
Yu-Tung Chang	Professor Brett Williams	Dr Edward Tsai	Implementation of a new education system for EMTs in Taiwan



## GRANTS

- Bobux International Ltd. Evaluation of the impact of footwear and sole design on toddler's gait. (\$12,000).
- Centre for Research Excellence in Prehospital Emergency Care (App #1116453). National Health and Medical Research Council. (\$2,499,626).
- Early Career Fellowship – Health Professionals Stream (App #1146809). National Health and Medical Research Council. (\$161,476).
- Interdisciplinary Research Support Scheme: Improving post-crash survival outcomes by optimising acute emergency care systems. (\$49,500).
- International Activity Challenge Fund. University of Limerick. Elevating UL's Paramedic Studies programme through reciprocal knowledge and information sharing with one of the leading paramedic departments in the world (\$7251).
- Monash Education Academy: Trauma in student paramedics: Using computer adaptive testing to measure trauma and support wellbeing. (\$5000).
- Monash University: Faculty of Medicine, Nursing and Health Science: Learning and Teaching Grant: Evaluating health students' work readiness as evidence-based practitioners. (\$17,500).
- Monash University: Faculty of Medicine, Nursing and Health Science: Learning and Teaching Grant: Strategies to empower students to initiate challenging conversations around professional practices with workplace supervisors (\$14,500).
- Monash University: Law Faculty. Research on Monash Law Student Mental Health. (\$32,145).
- REDucing Delays In Aneurysmal Subarachnoid Haemorrhage: the REDDISH study. NHMRC Project Grant (APP1143155) 2017 (\$453,368).
- Sax Institute: Rapid review on Women and Women with Children: Residential Rehabilitation Best Practice. (\$32,000).

## GOVERNMENT REPORTS

- Mitchell D, **Bowles K**, O'Brien L, Markham D, Plumb S, May K, Philip K, Haas R, Sarkies M, Ghaly M, Shackell M, Chiu, McPhail S, McDermott F, Skinner E, Haines T. Department of Health and Human Services Victoria. Weekend allied health services for acute medical / surgical patients to improve efficiency and safety of patient care. July 2017.
- Williams B**, **Bowles K**, Lubman D, Chakraborty S, Beovich B, Bowles J & Jepson M. Sax Institute ([saxinstitute.org.au](http://saxinstitute.org.au)) for the NSW Ministry of Health Women and Women with Children Residential Rehabilitation Best Practice: an Evidence Check, 2017.

## PEER REVIEWED PUBLICATIONS

- Al Thobaity, A.**, Plummer, V. **Williams, B.** What are the Most Common Domains of Core Competencies of Disaster Nursing? A Scoping Review International Emergency Nursing. International Emergency Nursing, 31(1), 64-71. 2017.
- AlShammari, T.**, **Jennings, P.**, **Williams, B.** Evolution of emergency medical services in Saudi Arabia. Journal of Emergency Medicine Trauma & Acute Care, 4. 2017.
- Andrew E, **Nehme Z**, Bernard S and **Smith K**. The influence of comorbidity on survival and long-term outcomes after out-of-hospital cardiac arrest. Resuscitation. 2017;110:42-47.
- Andrew E, **Nehme Z**, Wolfe R, Bernard S and **Smith K**. Long-term survival following out-of-hospital cardiac arrest. Heart. 2017;103:1104-1110.
- Beck B on behalf of AUSROC Management Committee – Finn J, Cameron P, **Smith K**, Bernard S, Grantham H, Hein C, Bray J and Williams T. AUS-ROC Epistry a boost for out-of-hospital cardiac arrest outcomes. MJA Insight June 2017.
- Beck B, Bray J, Cameron P, Straney L, Andrew E, Bernard S, **Smith K**. Predicting outcomes in traumatic out-of-hospital cardiac arrest – the relevance of Utstein factors. Emergency Medical Journal In Press 2017.
- Beck B, Bray J, Cameron P, Straney L, Andrew E, Bernard S, **Smith K**. Resuscitation attempts and duration in traumatic out-of-hospital cardiac arrest. Resuscitation, 2017; 111:14-21.
- Beck B, **Smith K**, Mercier E, Cameron P. Clinical review of prehospital trauma deaths – the missing piece of the puzzle. Injury In Press 2017.
- Bing F, Fitzgerald M, **Olaussen A**, Finnegan P, O'Reilly G, Gocentas R, Stergiou H, Korin A, Marasco S, McGiffin D. Identifying a safe site for intercostal catheter insertion using the mid-arm point (MAP). Journal of Emergency Medicine, Trauma and Acute Care. 2017;2017(1):3.
- Bowen, M., **Williams, B.**, & Stanke, L. Professionalism amongst paramedic student, achieving the measure or missing the mark? Advances in Medical Education and Practice, 8, 711-719. 2017.
- Bray J, **Smith K**, Case R, Cartedge S, Straney L and Finn J. Public cardiopulmonary resuscitation training rates and awareness of hands-only cardiopulmonary resuscitation: a cross-sectional survey of Victorians. Emergency Medicine Australasia. 2017;29(2):158-64.
- Bray J, Straney L. **Smith K**, Cartlidge S, Case R, Bernard S, Finn J. Regions with low rates of bystander CPR have lower rates of CPR training in Victoria, Australia. Journal of the American Heart Association In Press 2017.
- Bray J, Stub D, Bloom J, Segan L, Mitra B, **Smith K**, Finn J, Bernard S. Changing target temperature from 33°C to 36°C in the ICU management of out-of-hospital cardiac arrest: A before and after study. Resuscitation 2017;113:39-43.

Bray, J. E., Denisenko, S., Campbell, B. C.V., **Stephenson, M.**, Muller, J., Hocking Grad, G., Hand, P. J. and Bladin, C. F. A strategic framework improves access to stroke reperfusion across the state of Victoria, Australia. *Intern Med J.* 2017 Aug; 47(8): 923-928.

Brichko, L., **Jennings, P.**, Bain, C., Smith, K., Mitra, B. Selecting cases for feedback to pre-hospital clinicians – A pilot study 2016 *Australian Health Review*

**Cantwell K**, Morgans A, Smith K, Livingston M, Dietze P. Differences in emergency ambulance demand between older adults living in residential aged care facilities and those living in the community in Melbourne, Australia. *Australasian Journal on Ageing* 2017.

Chang, Y.-T., Kuang-Chau, T., **Williams, B.** What are the educational and curriculum needs for EMTs in Taiwan? A scoping review. *Advances in Medical Education and Practice*, 8, 649-667. 2017.

Cullen, K.L., Irvin, E., Collie, A., Clay, F., Gensby, U., **Jennings, P.A.**, Hogg-Johnson, S., Kristman, V., Laberge, M., McKenzie, D., Newnam, S., Palagyi, A., Ruseckaite, R., Sheppard, D.M., Shourie, S., Steenstra, I., van Eerd, D., Amick, B.C. Effectiveness of Workplace Interventions in Return-to-Work for Musculoskeletal.

Delorenzo AJ, Abetz JW, Andrew E, de Wit A, **Williams B, Smith K.** Characteristics of Fixed-Wing Air Ambulance Transports in Victoria, Australia. *Air Medical Journal* In Press 2017.

Delorenzo, A.J., Shepherd, M., **Jennings, P.A.** Endotracheal Cuff Pressure Changes During Helicopter Transport: A Systematic Review 2017 *Air Medical*.

Dietze P, **Cantwell K.** Intranasal naloxone soon to become part of evolving clinical practice around opioid overdose prevention. *Addiction* 2016.

Dyson K, Bray J, **Smith K**, Bernard S, Straney L, Finn J. Paramedic resuscitation competency: a survey of Australian and New Zealand emergency medical services. *Emergency Medicine Australasia* 2017;29(2):217-22.

Dyson K, Bray J, **Smith K**, Bernard S, Straney L, Nair R Air, Finn J. Paramedic Endotracheal Intubation Experience Is Associated With Successful Tube Placement but not Cardiac Arrest Survival. *Annals of Emergency Medicine* 2017;70:391-393.

Eastwood K, **Smith K**, Morgan A, Stoelwinder J. The appropriateness of cases presenting in the emergency department following ambulance service secondary telephone triage: a retrospective cohort study. *BMJ Open* 2017;7:e016845.doi:10.1136/bmjopen-2017-016845.

Faddy, S.C., **Jennings, P.A.** Biphasic versus monophasic waveforms for transthoracic defibrillation in out-of-hospital cardiac arrest 2016 *Cochrane Database of Systematic Reviews* 2016.

**Fouche P, Jennings P, Smith K**, Boyle M, Blecher G, Knott J, Raji M, Rosengarten P, Bernard S. Survival in Out-of-hospital Rapid Sequence Intubation of Non-Traumatic Brain Pathologies. *Prehospital Emergency Care.* 2017;1-9.

Fouche, P.F., **Jennings, P.A.** Physician presence at out-of-hospital cardiac arrest is not necessarily the cause of improved survival 2016. *Scandinavian Journal of Trauma.*

Giummarra, M.J., Cameron, P.A., Ponsford, J., Ioannou, L., Gibson, S.J., **Jennings, P.A.**, Georgiou-Karistianis, N. Return to Work After Traumatic Injury: Increased Work-Related Disability in Injured Persons Receiving Financial Compensation is Mediated by Perceived Injustice 2017 *Journal of Occupational Rehabilitation.*

Gratton R, **Olaussen A**, Hassan M, Thaveenthiran P, Fitzgerald MC, Mitra B. Diagnostic performance of the cardiac FAST in a high-volume Australian trauma centre. *Journal of Emergency Medicine, Trauma and Acute Care.* 2017;2017(1):2.

Haines, T & **Bowles, K-A.** Cost-effectiveness of using a motion-sensor biofeedback treatment approach for the management of sub-acute or chronic low back pain: Economic evaluation alongside a randomised trial. *BMC Musculoskeletal disorders.* 18 (1), 18. 2017.

Haines,T, **Bowles, K-A.**, Mitchell, D., O'Brien L, Markham D, Plumb S, May K, Philip K, Haas R, Sarkies M, Ghaly M, Shackell M, Chiu T, McPhail S, McDermott F, Skinner E. Impact of disinvestment from weekend allied health services across acute medical and surgical wards: 2 stepped-wedge cluster randomised controlled trials *PLOS Medicine* 14(10). 2017.

Heschl S, Andrew E, de Wit A, Bernard S, Kennedy M, **Smith K.** Prehospital transfusion of red cell concentrates in a paramedic-staffed helicopter emergency medical service. *Emergency Medicine Australasia* In Press 2017.

Ioannou, L., Braaf, S., Cameron, P., Gibson, S.J., Ponsford, J., **Jennings, P.A.**, Arnold, C.A., Georgiou-Karistianis, N., Giummarra, M.J. Compensation System Experience at 12 Months After Road or Workplace Injury in Victoria.

Ioannou, L.J., Cameron, P.A., Gibson, S.J., Gabbe, B.J., Ponsford, J., **Jennings, P.A.**, Arnold, C.A., Gwini, S.M., Georgiou-Karistianis, N., Giummarra, M.J. Traumatic injury and perceived injustice: Fault attributions matter in a 'no-fault' compensation state. *PLoS ONE.* 2017.

Irvine, S., McKenna, L., **Williams, B.** Are we assessing beyond cognition in near peer teaching? A systematic review. *Nurse Education Today*, 50, 42-50. 2017.

Kaplonyi, J., **Bowles, K-A.**, Nestel, D., Keilgadie, D., Maloney, S., Haines, T., & Williams, C. 2017. Do simulated patients improve person-centred communication in healthcare students? *Medical Education* 51(12).

Kirwan A, Curtis M, van Beek I, **Cantwell K**, Dietze P. Take-home naloxone and calls to emergency services. *Medical Journal of Australia* 2016.

Lord, B., **Jennings, P.A.**, Smith, K. The epidemiology of pain in children treated by paramedics 2016 *EMA – Emergency Medicine Australasia.*

## PEER REVIEWED PUBLICATIONS (cont.)

McKenna, L., **Williams, B.** The hidden curriculum in near-peer learning: An exploratory qualitative study. *Nurse Education Today*, 50, 77-81. 2017.

McLelland, G., Perera, C., Morphett, J., Hall, H., McKenna, L., **Williams, B.**, Stow, J. Interprofessional Simulation of Birthing Skills for Pre-Professional Students: A Descriptive Pilot Study. *Nurse Education Today*, 58, 25-31. 2017.

Meadley B, **Olaussen A**, Delorenzo A, Roder N, Martin C, Clair TS, Burns A, **Stam E, Williams B.** Educational standards for training paramedics in ultrasound: a scoping review. *BMC Emergency Medicine*. 2017;17(1):18.

Mitra B, Fitzgerald MC, **Olaussen A**, Thaveenthiran P, Bade-Boon J, Martin K, Smit DV, Cameron PA. Cruciform position for trauma resuscitation. *Emergency Medicine Australasia*. 2017;29(2):252-3.

**Nehme Z**, Andrew E, Bernard S, Patsamanis H, Cameron P, Bray JE, Meredith IT and **Smith K.** Impact of a public awareness campaign on out-of-hospital cardiac arrest incidence and mortality rates. *Eur Heart J*. 2017;38:1666-73.

**Nehme Z**, Andrew E, Nair R, Bernard S and **Smith K.** Manual Versus Semiautomatic Rhythm Analysis and Defibrillation for Out-of-Hospital Cardiac Arrest. *Circ Cardiovasc Qual Outcomes*. 2017;doi:10.1161/CIRCOUTCOMES.116.003577.

**Nehme Z**, Andrew E, Nair R, Bernard S and **Smith K.** Recurrent out-of-hospital cardiac arrest. *Resuscitation*. 2017;doi:10.1016/j.resuscitation.2017.08.011.

**Nehme Z**, Cameron PA, Akram M, Patsamanis H, Bray JE, Meredith IT and **Smith K.** Effect of a mass media campaign on ambulance use for chest pain. *Med J Aust*. 2017;206:30-35.

Ng FC, Low E, Andrew E, **Smith K**, Campbell B, Hand P, Crompton DE, Wijeratne T, Dewey H, Choi PM. Deconstruction of Inter-hospital transfer workflow in large vessel occlusion: Real-world data in the thrombectomy era. *Stroke In Press* 2017.

Ngu NL, **Olaussen A**, Wong J, Snow H, Cullinan M, Sitzler PJ. Perforated gangrenous cholecystitis with concurrent *Clostridium perfringens* bacteraemia masquerading as adenomyomatosis of the gall bladder: A case report. *Int J Case Rep Images*. 2017;8(3):179-83.

Nikathil S, **Olaussen A**, Gocentas RA, Symons E, Mitra B. Workplace violence in the emergency department: A systematic review and meta-analysis. *Emergency Medicine Australasia*. 2017.

Nikathil S, **Olaussen A**, Symons E, Gocentas R, O'Reilly G, Mitra B. Increasing workplace violence in an Australian adult emergency department. *Emergency Medicine Australasia*. 2017.

**Olaussen A, Jennings PA**, O'reilly G, Mitra B, Cameron PA. Barriers to conducting research: A survey of trainees in emergency medicine. *Emergency Medicine Australasia*. 2017;29(2):204-9.

**Olaussen A, Nehme Z, Shepherd MT, Jennings PA**, Bernard SA, Mitra B, **Smith K.** Consciousness induced during cardiopulmonary resuscitation: an observational study. *Resuscitation*. 2017;113:44-50.

**Olaussen A**, Semple W, **Oteir A**, Todd P, **Williams B.** Paramedic literature search filters: optimised for clinicians and academics. *BMC Medical Informatics and Decision Making*. 2017 Oct 11;17(1):146.

**Olaussen A.** Emergency medicine research: A trainee perspective. *Emergency Medicine Australasia*. 2017.

Olaussen, A., Shepherd, M., Nehme, Z., Smith, K., **Jennings, P.A.**, Bernard, S., Mitra, B. CPR-induced consciousness: A cross-sectional study of healthcare practitioners' experience 2016 *Australasian Emergency Nursing Journal*

**Oteir, A. Olaussen A, Smith, K.** Stoelwinder, J. Middleton, J. Cox, S. Sharwood, L. **Jennings. P.** Prehospital Predictors of Traumatic Spinal Cord Injury in Victoria, Australia. *Prehospital Emergency Care* (2017): 1-8.

Plummer, V., Tozer-Jones, J., **Williams, B.** The Bachelor of Nursing/Bachelor of Emergency Health (Paramedic): Student views of their preparation and intentions towards future practice. *Australasian Journal of Paramedicine*, 14(4). 2017.

Riou M, Ball S, Williams TA, Whiteside A, O'Halloran KL, Bray J, Perkins GD, Cameron P, Fatovich DM, Inoue M, Bailey P, Brink D, **Smith K**, Della P, Finn J. The linguistic and interactional factors impacting recognition and dispatch in emergency calls for out-of-hospital cardiac arrest. A mixed method linguistic analysis study protocol. *BMJ Open*, 2017;7:e016510.

Riou M, Ball S, Williams TA, Whiteside A, O'Halloran KL, Bray J, Perkins GD, **Smith K**, Cameron P, Fatovich DM, Inoue M, Bailey P, Brink D, Finn J. 'Tell me exactly what's happened': when linguistic choices affect the efficiency of emergency calls for cardiac arrest. *Resuscitation In Press* 2017.

**Ross, L.**, Adams, T., **Beovich, B.** Methamphetamine use and emergency services in Australia: a scoping review. *Journal of Paramedic Practice*, 9(6), 244-257. 2017.

**Ross, L., Jennings, P.**, Moffatt, N. Practice interviews enhancing employment prospects for paramedic graduates. *Australasian Journal of Paramedicine*, (accepted).

**Ross, L., Jennings, P., Smith, K., Williams, B.** Paramedic Attendance to Older Patients in Australia, and the Prevalence and Implications of Psychosocial Issues. *Prehospital Emergency Care*, 21(1), 32-38. 2017.

**Ross, L., Jennings, P., Williams, B.** Improving health care student attitudes toward older adults through educational interventions: A systematic review. *Gerontology & Geriatrics Educational* (online). 2017.



**Ross, L., Jennings, P., Williams, B.** Psychosocial support issues affecting older patients: a cross-sectional paramedic perspective. *INQUIRY: The Journal of Health Care Organization, Provision, and Financing*, 54, 1-6. 2017.

**Ross, L.,** Kabidi, S. Embedding volunteer activity into paramedic education. *Journal of Allied Health*, 46(3), 192-196. 2017.

Sarkies, M.N., **Bowles, K-A.**, Skinner, E.H., Haas, R., Lane, H., & Haines, T. The effectiveness of research implantation strategies for promoting evidence-informed policy and management decisions in healthcare: a systematic review. *Implementation Science*. 12(132). 2017.

Savary, D., Champly, F., Desormais, G., Prieur, S., Baré, S., Manteau, E., **Jennings, P.**, Blancher, M. The initial management of severe trauma patients in mountain rescue [Prise en charge du traumatisé grave en secours en montagne] 2016 *Reanimation*

Sawyer S, Coles J, Williams A, Lucas P, **Williams B.** Paramedic students' knowledge, attitudes, and preparedness to manage intimate partner violence patients. *Prehospital emergency care*. 2017 Jun 27:1-1.

Shuster R, Mathew J, **Olaussen A**, Gantner D, Varma D, Koukounaras J, Fitzgerald MC, Cameron PA, Mitra B. Variables associated with pulmonary thromboembolism in injured patients: A systematic review. *Injury*. 2017.

**Stam N**, Gerostamoulos D, Dietze P, Parsons S, **Smith K**, Lloyd B and Pilgrim J. The attribution of a death to heroin: A model to help improve the consistent and transparent classification and reporting of heroin related deaths. *Forensic Science International* In Press 2017.

Synnot, A., Karlsson, A., Brichko, L., Chee, M., Fitzgerald, M., Misra, M. C., Howard, T., Mathew, J., Rotter, T., Fiander, M., Gruen, R. L., Gupta, A., Dharap, S., Fahey, M., **Stephenson, M.**, O'Reilly, G., Cameron, P., Mitra, B. and on behalf of the Australia-India Trauma System Collaboration, Prehospital notification for major trauma patients requiring emergency hospital transport: a systematic review. *Journal of Evidence-Based Medicine*. 2017 Aug;10(3): 212-221.

Udy A, **Smith K** and Bernard S. Timing of antibiotics in the management of community-acquired sepsis: Can a randomised controlled trial of pre-hospital therapy provide answers? *Emergency Medicine Australasia* In Press 2017.

Villani M, Earnest A, Nanayakkara N, **Smith K**, de Courten B, Zoungas S. Time series modelling to forecast prehospital EMS demand for diabetic emergencies. *BMC Health Services Research*. 2017;17(1):332.

Villani M, Nanayakkara N, Ranansinha S, Earnest A, **Smith K**, Soldatos G, Teede H and Zoungas S. Utilisation of prehospital emergency medical services for hyperglycaemia: a community-based observational study. *Plos One* In Press 2017.

**Williams, B.** Nyugen., D. Near peer teaching in paramedic education: A repeated measures design. *Innovations in Education and Teaching International*, 54(4), 345-354. 2017.

**Williams, B., Beovich, B.**, Edlington, T., Flemming, G., & Donovan, G. (2017). Difficult Conversations within Healthcare: a Pilot Study. *Medical Science Educators*. 27(2): 165-172.

**Williams, B., Beovich, B.**, Flemming, G., Donovan, G., & **Patrick, I.** (2017). An exploration of difficult conversations in Australian paramedics. *Nursing and Health Sciences*, 19(3), 358-365.

**Williams, B., Beovich, B., Ross, L.**, Wright, C & Ilic, D. Self-efficacy perceptions of interprofessional education and practice in undergraduate healthcare students. *Journal of Interprofessional Care*, 31(3), 335-341. 2017.

**Williams, B.**, Brown, T., McKenna, L., Etherington, J. Attachment and Empathy in Australian Undergraduate Paramedic, Nursing and Occupational Therapy Students: a cross-sectional study. *Collegian*. In Press.

**Williams, B.**, Lau, R., Thorton, E., Olney, L. The relationship between empathy and burnout – lessons for paramedics: A scoping review. *Psychology Research and Behavior Management*. In Press.

**Williams, B.**, Lynch, M., **Olaussen, A.**, Lachmann, H., Kalen, S., & Ponzer, S. Translation and psychometric evaluation of the Swedish version of the Interdisciplinary Education Perception Scale (IEPS). *Journal of Interprofessional Care*. In Press.

**Williams, B.**, Reddy, P., Marshall, S., **Beovich, B.**, McKarney, L. Simulation and mental health outcomes: A scoping review. *Advances in Simulation*, 2(2). 2017.

**Williams, B., Sawyer, S.**, Lau, R. The Psychometric properties of the Professionalism at Work Questionnaire for Paramedics. *Journal of International Emergency Nursing*. In Press.

Williams, C., Penkala, S., Smith, P., Haines, T., **Bowles, K-A.** Exploring musculoskeletal injuries in the podiatry profession: an international cross sectional study. *Journal of Foot and Ankle Research*. 10 (1), 3. 2017.

Witt K, Lubman D, Lloyd B, **Smith K.** Co-consumption of alcohol and psychotropic medications in episodes of non-fatal self-poisoning attended by ambulance services in Victoria, Australia: Evidence of potential modification by medical severity. *British Journal of Psychiatry* 2017;210 (eletter).

## PEER REVIEWED CONFERENCE PRESENTATIONS

Batagol, B., Sifris, A., **Williams, B.** A Missing Piece of the Puzzle? The Relationship between Empathy and Mental Health/ Wellbeing for Law Students. Paper presented at the Wellness Network for Law. 2017.

**Burgess S** and Burgess J Frailty in community dwelling older people: national prevalence and 12-month longitudinal change. Australian Association of Gerontology National Conference 2017. Perth, WA. 8th November.

Crampton, P., Brown, T., Hood, K., Kent, F., Leech, M., Newton, J., **Williams, B.** Rees, C. Interprofessional student-clinician workplace interactions: a qualitative study. Paper presented at the ANZAHPE. 2017.

Crampton, P., Brown, T., Hood, K., Kent, F., Leech, M., Newton, J., **Williams, B.** Rees, C. Workplace interprofessional education: Understanding interprofessional student-clinician interactions through narrative inquiry Paper presented at the ASME, Melbourne. 2017.

Farlie, M., **Bowles, K. A.**, Weightman, J., Saber, K. J., Neave, B., Yamin, J. Haines, T. P. Bringing health professionals, consumers and researchers together through research: The Balance Intensity Scale (BIS) Study. Paper presented at the WCPT Congress, Cape Town, South Africa. 2017.

Holt, S., Andrews, E., Shepherd, M., **Williams, B.**, Smith, K. Pre-hospital arterial line insertion in an Australian air ambulance service. Paper presented at the Paramedics Australasia International Conference 2017.

Irvine S, **Williams, B.**, McKenna L. Self-regulation strategies and behaviours used by near-peer nurse teachers: A qualitative study. Paper presented at the 7th International Clinical Skills Conference, Prato, Italy. 2017.

Irvine, S., **Williams, B.**, McKenna, L. Quantitative systematic review: How is learning assessed in near-peer teaching? Paper presented at the Australian & New Zealand Association for Health Professional Educators, Adelaide, South Australia. 2017.

Irvine, S., **Williams, B.**, McKenna, L. Transitioning from learner to lifelong teacher. Paper presented at the International Council of Nurses Congress, Barcelona, Spain. 2017.

McKenna L., Irvine, S., **Williams, B.** How does undergraduate near-peer teaching impact graduate practice? Paper presented at the Clinical Skills Conference, Prato. 2017.

Newton, J., **Williams, B.**, Leech, M., Hood, K., Burley, M., Fiona, F., & Willetts, G. A realist evaluation of IPL: lessons learnt for moving forward. Paper presented at the Showcasing Learning and Teaching Research in MHNS, Melbourne, Australia. 2017.

**Ross, L.** Seeing is believing: Using point of view glasses to provide clinical simulation feedback. Paper presented at the National Association of Emergency Medical Services Educators Conference, Washington DC. 2017.

**Ross, L., Williams, B., Jennings, P.** The prevalence and nature of paramedic attendance to older adults in Australia. Paper presented at the International Association of Gerontology and Geriatrics World Congress, San Francisco. 2017.

**Sawyer S**, Coles J, Williams A, **Williams B.** A guideline for paramedics to respond to intimate partner violence. Professionalisation of Paramedicine through Research Symposium. Melbourne, Australia; 2017.

**Sawyer S**, Coles J, Williams A, **Williams B.** A paramedic guideline to respond to intimate partner violence. EMS World Scientific Symposium 2017. Las Vegas, USA; 2017. (Winner best speaker)

**Sawyer S**, Coles J, Williams A, **Williams B.** Paramedics: A new resource for intimate partner violence patients. Paramedics Australasia International Conference. Melbourne, Australia; 2017.

Scroggie C, Kenah, K, Biggs, L, **Bowles K-A.** Can a combined subacute and community rehabilitation neurological circuit group improve patient transition and therapist collaboration between both services? Smart Stroke Conference Queensland Aug 2017.

Spring K, **Bowles, K-A.** Are we risking our health to save others? Paramedic lumbar movement patterns during CPR. Paramedics Australasia National Conference. Melbourne Nov 2017.

Stow, J., McLelland, G., Morphet, J., Perera, C., Hall, H., **Williams, B. L.**, McKenna. Using discourse analysis of video data to identify verbal and non-verbal communication in emergency birthing simulations: an intra- and interprofessional study. Paper presented at the Australasian Simulation Congress Sydney. 2017.

**Williams B, Beovich B**, Brown T, Bryce A, Maloney S, McKenna, L. Experiences of sessional educators within the Faculty of Medicine, Nursing and Health Sciences (FMNHS). Monash Education Academy Learning & Teaching Conference; May 31; Monash University, Melbourne, Australia. 2017.

**Williams B, Beovich B.** Experiences of Sessional Educators within an Australian Undergraduate Paramedic Program. Paramedics Australasia International Conference; Nov 23-25; Melbourne, Australia. 2017.

**Williams, B.** Peer-assisted learning in paramedic education: a randomised control trial. Paper presented at the Showcasing Learning and Teaching Research in MHNS, Melbourne, Australia. 2017.

Yeung T, Shannon B, Perillo S, **Nehme Z, Jennings P, Olausson A:** Outcomes of patients who are not transported following ambulance attendance: a systematic review and meta-analysis: Paramedics Australasia 2017.

# STAFFING

## FIXED TERM AND CONTINUING STAFF

Barbara Martin  
Brett Williams  
Brian Haskins  
Cameron Gosling  
Craig Taylor  
Emma Stam  
Janet Curtis  
Joanne Tymms  
Joel Luttrell  
Kelly-Ann Bowles  
Linda Ross  
Lisa Sarris  
Matthew Stewart  
Nathan Stam  
Ravina Ravi  
Rodney Mason  
Simon Sawyer

## ADJUNCT STAFF

Ala'a Oteir  
Alexander Olausson  
Conor Deasy  
David Page  
Ian Patrick  
John Moloney  
Karen Smith  
Katharine Cantwell  
Michael Stephenson  
Mohammed Alzahrani  
Omer Al Sakaf  
Paul Jennings  
Stephen Burgess  
Ziad Nehme

## CASUAL AND SESSIONAL STAFF

Alan Eade  
Alison Kuen  
Amanda Sharpe  
Andrew Bishop  
Andrew Burns  
Andrew Hart  
Andrew Johnson  
Andrew McKenzie  
Andrew Teese  
Angus Bowden  
Anna Janssen  
Balvindar Kaur  
Bart Cresswell  
Benjamin Meadley  
Boyd Furnston  
Bradley Martin  
Brian Hicks  
Bruce Campbell  
Callum Collier  
Caroline Martin  
Casey Robinson  
Chloe-Eloise Verhees  
Christian Winship  
Christine Kolac  
Clair St  
Claire Wilkin  
Clifford Elliott  
Colin Jones  
Craig Harris  
Cullen Hamilton

Damien Dambrosi  
Daniel Cudini  
Daniel Siddins  
Daria West  
Darren Hodge  
David Caldicott  
David Smythe  
Desmond Vernon  
Despina Papadopoulou  
Edda Courtney  
Elizabeth Perry  
Emma Bywater  
Emma West  
Gabrielle Bulle  
Gavin Lawley  
Glenn Fairall  
James Black  
Jamie Patterson  
Jason Pitman  
Jennifer Richards  
Bronwyn Beovich  
John Bowles  
Simone Cranage  
Megan Jepson  
Larissa Pirlo  
Samantha Rowbotham  
Chloe Abel  
Andrew Allan  
Jeffrey Allan  
Sophia Andrews

Timothy Andrews  
Joshua Arundale  
Campbell Asker  
Eileen Barry  
Carly Bearder  
Ryan Bennett  
Samuel Bennett  
Jessica Bertucci  
Jessica Nagy-Willis  
Jodi Gillott  
John McKenzie  
Jonathan Wright  
Karen Zaleski  
Kate Kazenwadel  
Kate Sedgwick  
Keryn Walker  
Kirsty Marshall  
Laura Mattig  
Leon Spratt  
Lisa Powell  
Mariah McClounan  
Mark Wallace  
Matthew Humar  
Matthew Shepherd  
Matthew Smith  
Michaela Malcolm  
Mitchell Sarkies  
Nathaniel Zahariou  
Nicholas Roder  
Nicole Brownlie

Olivia Fiddelaers  
Patrick Donaldson  
Paul Coghlan  
Paul Toll  
Penny Grattan  
Rachel Crocker  
Rebecca Jones  
Robert Lasslett  
Robert Sanders  
Robyn Sanders  
Romi Haas  
Ross Pollard  
Ross Salathiel  
Ryan Parry  
Sam Peart  
Samuel Caldwell  
Sarah Taylor  
Shaun Whitmore  
Simon Fraser  
Simone Boyce  
Sonny Roff-Smith  
Stephen Fairey  
Steven Musgrave  
Stuart Hill  
Tegwyn McManamny  
Theodore Kossart  
Thomas Duigan  
Trevor Clancy  
Wayne Gardam  
Yvette Mersits





MONASH  
University