

The Centre for Excellence and Innovation in Anaesthesia (CEIA) at the Royal Brisbane and Women's Hospital (RBWH) would like to welcome you to

# The Inaugural Perioperative Patient Blood Management Symposium

*The Journey of a Trauma patient*

**Saturday 18 February 2017**

**8am – 5pm**

Education Centre, RBWH  
Butterfield Street, Herston

**Register at [www.health.qld.gov.au/metronorth/events/ppbms/default.asp](http://www.health.qld.gov.au/metronorth/events/ppbms/default.asp)**

Participants in the ANZCA CPD program may claim this event under the Knowledge and skills activity Learning sessions at 1 credit per hour. For more information email [ppbms@health.qld.gov.au](mailto:ppbms@health.qld.gov.au)

# Program

Time	Topic	Speaker
08.00 – 08.45am	Registration	
08.45 – 09.00am	Welcome	A/Prof Kerstin Wyssusek
<b>Guidelines and Standards</b>		<b>Chair: A/Prof Daryl Wall</b>
09.00 – 09.30am	International – EU Trauma Management Guideline: Do they apply?	Prof Rolf Rossaint
09.30 – 10.00am	National – NBA: Do we know?	GM National Blood Authority Australia TBA
10.00 – 10.30am	Local – MTP: Do we comply?	Dr John Rowell
10.30 – 10.45am	Discussion	
10.45 – 11.15am	MORNING TEA	
<b>Blood Management 1 – The Bleeding Trauma Patient</b>		<b>Chair: Prof André Van Zundert</b>
11.15 – 11.45am	The use of blood products in pre-hospital damage control resuscitation strategies	Dr Stephen Rashford
11.45 – 12.15pm	ROTEM in the Emergency department	Dr Catherine Hurn
12.15 – 12.45pm	Intraoperative Cell Salvage	Dr Michelle Roets
12.45 – 01.15pm	Modern Trauma resuscitation and Transfusion in the Intensive Care Unit	Dr Anthony Holley
01.15 – 01.30pm	Discussion	
01.30 – 02.30pm	LUNCH	
<b>Blood Management 2 – Additives</b>		<b>Chair: Prof Jeffrey Lipman</b>
02.30 – 03.00pm	Fibrinogen Concentrate – Good new Friend?	Dr James Winearls
03.00 – 03.30pm	Tranexamic Acid – Too early or too late?	Prof Michael Reade
03.30 – 04.00pm	Iron Therapy in PBM: From concept to Application.	A/Prof Bernd Froessler
04.00 – 04.30pm	The role of transfusion in exacerbating underlying patient morbidity: What can we learn from models of transfusion and TRALI?	Dr John-Paul Tung
	Post-transfusion complications: Prothrombotic lipid microvesicles in packed red blood cells?	Prof Robert Flower
04.30 – 04.45pm	Discussion	

## Workshop 09.00 – 10.30am:

Intra-Operative cell salvage: How to manage a cell salvage service: Implementation, Education, Booking, Standard Operating Procedure. Cases with most benefits and the cost of managing an ICS service will be discussed. Vicki Swaine

# Faculty



## 1. A/Professor Kerstin Wysusek, Convener

Director Department of Anaesthesia and Perioperative Medicine RBWH, The University of Queensland

Associate Professor Kerstin Wysusek is Director of the Department of Anaesthesia and Perioperative Medicine at the Royal Brisbane & Women's Hospital and an Associate Professor at The University of Queensland. She is involved with PBM since 1990 when she started specialist training in Germany. Kerstin worked in an Autologous Blood Donation Centre at a University Hospital in Berlin and has used cell salvage since 1991. She has extensive experience in transplant anaesthesia and intensive care medicine and has worked in several major trauma centres in Europe and Australia.

## 2. A/Professor Daryl Wall

Director of Trauma Services RBWH, Chair Queensland Statewide Trauma Clinical network, Member Queensland Clinical Senate

Associate Professor Daryl Wall has provided trauma care for over 50 years and carried out over 1000 kidney transplants. He received an Order of Australia 2006 for his contributions to transplantation, trauma care training and rehabilitation. Currently, he serves as Chairman of the Queensland Government's Statewide Trauma Clinical Network, Chairman of the RACS Trauma Committee, Chairman of the Medical Committee of the World Transplant Games Federation, Councilor of World Transplant Games Federation, Councilor of Asian Surgical Association, Patron Transplant Australia Queensland to name a few and Director of EMST, CCRISP and DSTC. However, his main contribution to trauma care management is his children who are trained and practiced in intensive care trauma and emergency medicine.

## 3. Professor Rolf Rossaint

Director Department of Anaesthesiology University Hospital Aachen, Germany

Professor Rolf Rossaint is Professor and Head of the Department of Anaesthesiology at the University Hospital (since 1997). Prior to his present appointment, he was Associate Professor in the Clinics for Anaesthesiology and Surgical Intensive Care at the Humboldt University of Berlin. He is member of the National Academy of Science Leopoldina.

He has (co) authored over 540 articles in peer-reviewed journals. His clinical and research interests include pulmonary pathophysiology, ALI/ARDS/sepsis treatment, extracorporeal lung assist, xenon anaesthesia, coagulation management, and telemedicine in emergency medicine. He developed a holistic telemedicine system for a broad spectrum of different prehospital emergency cases, which acts now on a routine basis synergistically to the existing ground- and air-based rescue systems.

## 4. Dr John Rowell

Director Department of Haematology Pathology Queensland and Haemophilia Centre at RBWH

Dr John Rowell Dr. John Rowell is Director of Hematology at Pathology Queensland and Director of Haemophilia Centre at the Royal Brisbane and Women's Hospital in Brisbane. Dr. Rowell's major interests are in hemophilia and other bleeding disorders, genetic diagnosis, and transfusion. Dr. Rowell has been a member of the Council of the Australian and New Zealand Society of Blood Transfusion, was Chairman of the RCPA Transfusion Quality Assurance Program, and was an examiner in Hematology for the Royal College of Pathologists of Australasia.

## 5. Professor André Van Zundert

Professor & Chairman Discipline of Anesthesiology, The University of Queensland – Faculty of Medicine & Biomedical Sciences; Chair, University of Queensland 'Burns, Trauma & Critical Care Research Centre'; Chair, RBWH/ University of Queensland 'Centre for Excellence & Innovation in Anaesthesia'; Department of Anaesthesia & Perioperative Medicine RBWH

Professor André van Zundert has had a prolific clinical and academic career spanning 30 years. Since 2010 alone, he has authored 100 peer-reviewed publications; 1 book and 14 book chapters. Professor Van Zundert has 182 publications listed in Pubmed. Hirsch Factor (h-factor): 32; with his work having 5239 citations (March, 2016). He has received 14 international awards in recognition of his contributions to anaesthesia. In 2014, van Zundert was awarded the 'UQ Most Novel Innovation Award', for his role in establishing the 'Centre for Excellence & Innovation in Anaesthesia'.

## 6. Dr Stephen Rashford

Queensland Ambulance Service Medical Director

Dr Stephen Rashford is a consultant emergency physician with over 25 years' experience in aeromedical retrieval medicine and pre-hospital care. Over the past 15 years he has developed innovative approaches to the care of the multiply injured patient, including the novel use of early blood products within the urban environment. His association with the QAS began in 1999, where he became Medical Director in 2005. Steve is often in the field with the paramedics, providing a unique perspective to this area of critical care resuscitation.

## 7. Dr Catherine Hurn

FACEM Senior Staff Specialist, Department of Emergency Medicine RBWH, Senior Lecturer, The University of Queensland

Dr Catherine Hurn is an emergency physician at the RBWH with a long held interest in trauma resuscitation and the management of critical bleeding.

## 8. Dr Michelle Roets

Staff Specialist in Anaesthesia Anaesthesia and Perioperative Medicine RBWH, Senior Lecturer The University of Queensland

Dr Michelle Roets did her undergraduate medical training and a diploma in anaesthetics at the University of Pretoria in South Africa, a fellowship in Anaesthesia, Intensive care and Pain Medicine at the Royal College of Anaesthetists of Ireland and a Master's degree in Clinical Research Administration with the Walden University in Baltimore, Maryland, USA. She is currently a Staff specialist anaesthetist, Equipment lead and the lead of the intra-operative cell salvage group for the Anaesthetic department at the RBWH.

Dr Roets was co-author during the development of the "Guidance for the Provision of Intra-operative cell salvage" document and appendixes published by the National Blood Authority (NBA) in Australia in 2014.



## 9. Dr Anthony Holley

Senior Staff Intensivist, Senior lecturer, University of Queensland, The School of Medicine; Supervisor of Training; Department of Intensive Care Medicine, Royal Brisbane and Women's Hospital

Dr Anthony Holley is an intensivist at RBWH and a senior lecturer with the University of Queensland Medical School. Anthony serves on the ANZICS National Executive and is an examiner for the Fellowship of the College of Intensive Care Medicine. He has authored six book chapters and 30 peer reviewed publications. Anthony is a supervisor of ICU training at the RBWH. He is a representative for the National Blood Authority Critical Care Group in developing the Australian Patient Blood Management Guidelines. Anthony is a serving Commander in the Royal Australian Navy and has deployed extensively, including to Afghanistan and Iraq.

## 10. Professor Jeffrey Lipman

Director Intensive Care Services, Royal Brisbane and Women's Hospital; Professor and Head, Anaesthesiology and Critical Care, The University of Queensland; Adjunct Professor, Faculty of Health, Queensland University of Technology; Adjunct Professor, The George Institute for Global Health, University of Sydney

Professor Jeffrey Lipman is a career Intensivist, having worked full-time in ICUs since 1979. His research interests include all aspects of infection management in intensive care. He has a special interest in the pharmacokinetics of antibiotics, an area in which he completed his MD through Chinese University of Hong Kong. He has published over 30 book chapters and over 400 peer-reviewed articles including in high impact journals like NEJM and JAMA.

He has been an invited speaker to over 100 Congresses and has been the recipient of a number of National and International awards for his service to Intensive Care Medicine.

## 11. Dr James Winearls

Senior Lecturer with University of Queensland & Griffith University; Consultant Intensivist, Intensive Care Unit; Gold Coast University Hospital

Dr James Winearls is a Staff Specialist in Intensive Care Medicine at the Gold Coast University Hospital. He trained in the UK, South Africa and Australia and has been an Intensivist at GCUH since 2012. He special interests are in cardiothoracic intensive care and the coagulopathy associated with critical bleeding. The GCUH Critical Care Research Group has an extensive programme of research investigating the utility of POCT in critical bleeding.

## 12. Professor Michael Reade

Professor of Military Medicine and Surgery, Burns, Trauma & Critical Care Research Centre; The University of Queensland and Joint Health Command, Australian Defence Force

Professor Michael Reade is an intensivist and clinician scientist in the Australian Defence Force, seconded to UQ to lead a program of research relevant to military trauma medicine and to guide implementation of modern trauma care into ADF practice. He is the Director of Clinical Services of the Australian Regular Army's only field hospital and has completed eight overseas operational deployments, most recently to Iraq in 2015 and 2016. His research interests are fluid resuscitation and coagulopathy in trauma, clinical trials of cryopreserved blood products and tranexamic acid, and the management of delirium. He holds >A\$12M research grants, has published >100 papers and delivered >140 lectures.

## 13. A/Professor Bernd Froessler

Department of Anaesthesia Lyell McEwin Hospital, Clinical Associate Professor; Discipline of Acute Care Medicine University of Adelaide

Associate Professor Bernd Froessler is a Staff Specialist in Anaesthesia at the Lyell McEwin Hospital in Adelaide and an Associate Professor at the University of Adelaide. Bernd was born in Germany and completed undergraduate training in 1988 at the University of Cologne. He worked as a specialist in Germany, Holland and Australia. He has been involved in Patient Blood Management initiatives since 2006. Reviewing local transfusion practices led to a growing desire for Bernd to undertake research into PBM related aspects and guide the implementation of quality improvement projects. In collaboration with other specialties Bernd established an antenatal iron infusion clinic, a perioperative anaemia management pathway and intraoperative cell salvage at his hospital.

## 14. Professor Robert Flower

National Leader Australian Red Cross Blood Service, Transfusion Safety Research; Adjunct Professor The University of Queensland

Professor Robert Flower has 30 years' experience in transfusion-related teaching and research in hospitals and universities. Robert is currently supervises a team of more than 30 scientists and students in R&D in the Australian Red Cross Blood Service. Robert holds a DipEd and DipBus as well as a PhD and is Fellow of the Faculty of Science of the Royal College of Pathologists. More than 30 students have completed post-graduate study under Robert's supervision and he has over 250 publications with more than 1500 citations. Robert's research is focused on genetics for blood typing and maintaining the safety and quality of blood products.

## 15. Dr John-Paul Tung

Phd, BSc Senior Research Fellow; Australian Red Cross Blood Service

Dr John-Paul Tung is a Senior Research Fellow at the Australian Red Cross Blood Service where he leads a team of 3 Research Assistants, 2 Research Nurses, 6 PhD students and 2 Masters students. He also holds affiliations with the University of Queensland, Queensland University of Technology and the Critical Care Research Group at the Prince Charles Hospital. His research is focused on better understanding the effects and possible negative outcomes associated with transfusion, especially of stored blood products. A particular focus is on transfusion-related acute lung injury or TRALI, with his doctoral thesis describing the development of the first large animal model TRALI using sheep.

## 16. Vicki Swaine

Manager Anaesthetic Support Services; Department of Anaesthesia and Perioperative Medicine RBWH

Vicki Swaine is the Manager of the Anaesthetic Healthcare Practitioners at the Royal Brisbane & Women's Hospital and she is the Professional Lead across Metro North HHS. She commenced working in Anaesthesia at Toowoomba Base Hospital in 1989 and she has been working at the Royal Brisbane and Women's Hospital since 2004. She has an extensive knowledge in intra-operative cell salvage and supports her team of 10 dedicated Cell Salvage Practitioners (ICS) to deliver intra-operative cell salvage for both elective and emergent surgical cases. The Royal Brisbane & Women's Hospital is a large tertiary referral hospital with a large trauma team and fast paced Red Blanket Service.