

Curriculum Vitae
Alicia T Dennis, MBBS PhD MPH PGDipEcho FANZCA GAICD
Fulbright Scholar
Douglas Joseph Professor of Anaesthesia

Date Prepared: 16 January 2026

Name: Alicia Therese Dennis

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Acknowledgement of and commitment to First Nations People I acknowledge the Traditional Custodians of the land on which I live and work, the Wurundjeri Woi-Wurrung, Wadda-Wurrung, Boon Wurrung and Bunurong peoples of the Kulin Nation and the land of the Gunditjmara people. I pay respects to Elders past and present. I am committed to the healing of country, working together towards equity in health outcomes and the ongoing journey of reconciliation. I am committed to respectfully listening and learning from First Nations people and support their journey to self-determination.

Personal Statement:

I am an academic clinician researcher at the Joan Kirner Women's and Children's Hospital, with honorary appointments at the Brigham and Women's Hospital (Boston), The University of Melbourne, Deakin University, and the Peter MacCallum Cancer Centre. My clinical, teaching, and research work focus on obstetric anesthesiology, perioperative medicine, critical care, preeclampsia, and obstetric echocardiography. With over 30 years of experience in anaesthesia and perioperative management of high-risk pregnancies, I have promoted transthoracic echocardiography for cardiovascular management in critically ill pregnant women. My work in preeclampsia haemodynamics has identified an alternative disease model (The Constant Stimulus Adaptive Response (CSAR) Model) and new prevention and treatment pathways including global treatment of anaemia, the use of high flow humidified nasal oxygen for patients with preeclampsia, and improving the medical understanding of heart failure especially heart failure with reduced ejection fraction in patients with preeclampsia.

Through my honorary and volunteer roles, I advocate for equity, and promote clinical, research, and educational excellence by engaging with medical colleges, societies, and government. I am committed to excellence in medicine and science, with a focus on ethics, truth, respect, and collaboration. I dedicate my life to patient care and to inspiring and protecting medical students and early career doctors to become the next generation of humanitarian leaders. I support colleagues and provide opportunities for their professional growth, believing that patient safety depends on healthy, collaborative professionals guided by integrity.

I advocate for anesthesiology in Australia and globally. In 2021, I received the President's Award from the Australian Society of Anaesthetists for extraordinary service—recognizing my leadership in advocating for anaesthesia and marginalized communities in collaboration with the Department of Health. This discretionary award has been given to only two others in the past decade. In 2023, I was the highest-ranked medical science Fulbright Scholar in Australia and the US, supporting ongoing work at the Brigham and Women's Hospital and collaborations to improve global maternal health. In 2024, I was awarded the Douglas Joseph Professorship by the Australian and New Zealand College of Anaesthetists for excellence in scholarship and research. I believe that lasting change for humanity arises through intelligence, kindness, competence, and perseverance.

Education:

1994	MBBS (Bachelor of Medicine; Bachelor of Surgery)	Medicine	University of Melbourne Parkville, Victoria Australia <i>Ranked Number 1 University in Australia, Ranked number 1 in Medicine</i> (QS World University Rankings 2024/QS Graduate Employability 2022)
2008	PGDipEcho (Postgraduate Diploma of Perioperative and Critical Care Echocardiography)	Echocardiography	University of Melbourne Parkville, Victoria Australia <i>Ranked Number 1 University in Australia, Ranked number 1 in Medicine</i> (QS World University Rankings 2024/QS Graduate Employability 2022)
2010	PhD (Doctor of Philosophy)	Obstetric medicine, Cardiology, Perioperative Medicine (Primary Advisors: Prof Colin Royce and Prof Michael Permezel)	University of Melbourne Parkville, Victoria Australia <i>Ranked Number 1 University in Australia, Ranked number 1 in Medicine</i> (QS World University Rankings 2024/QS Graduate Employability 2022)
2017	MPH (Master of Public Health)	Global Infectious Diseases; Women's Health	University of Sydney Camperdown, NSW Australia
2020	GAICD (Graduate Australian Institute of Company Directors)	Leadership and Governance	Australian Institute of Company Directors Sydney, NSW Australia (completion of Company Directors Course)
2020	Finance (certificate course)	Leading with Finance	Harvard Business School Online
2022	Credential of Readiness (certificate course)	Financial Accounting Course Business Analytics Course Economics for Managers Course	Harvard Business School Online
2022	Health Economics (certificate course)	Health Economics and Policy Course	London School of Economics, London, United Kingdom
2024	Justice and Political Philosophy (certificate course)	Justice and Political Philosophy Course	Harvard University – HarvardX edX

Honours, Prizes and Medals:

2007	LMA Pacific Medical Fellowship (Award)	Australian Society of Anaesthetists	Research Excellence
2008	Gilbert Troup Prize and Medal	Australian Society of Anaesthetists	Research Excellence
2009	Preeclampsia Research Laboratories (PEARLS) Scholar Award	PEARLS laboratories, NSW, Australia	Research Excellence
2010	Best Scientific Paper and Best Presentation Prize (Overall winner)	Obstetric Anaesthetists' Association of United Kingdom	Clinical Research Excellence
2010	Young Investigator Travel Prize	The International Society for the Study of Hypertension in Pregnancy	Clinical Research Excellence
2010	The Zuspan Prize	The International Society for the Study of Hypertension in Pregnancy	"For the most outstanding clinical work"
2010	Frederick P. Zuspan Prize	Perinatal Resources, Inc.	Clinical Research Excellence for best clinical presentation at International Society for the Study of Hypertension in Pregnancy XVII World Congress
2011	Jackson Rees Research Grant award	Australian Society of Anaesthetists	Highest ranked research grant
2012	Gilbert Troup Prize and Medal (NOTE: First person to ever be awarded this Medal twice, see 2008)	Australian Society of Anaesthetists	Research Excellence
2013	Visiting Scholars Fund Award	University of Cape Town, South Africa	International Research Excellence
2014	Mundipharma Research Award	Australian and New Zealand College of Anaesthetists	Highest Ranked Research Grant
2015	Best Poster Presentation Award (Overall winner)	Obstetric Anaesthetists' Association of United Kingdom	Research Excellence
2016	Commonwealth Supported Scholarship	Australian Government	Academic Excellence, MPH

2016-2020	National Health and Medical Research Council Fellowship Award(Health Professional Early Career Fellowship)	Australian Government	Research Excellence
2017	Best Poster Presentation Award (Caesarean Section Category)	Obstetric Anaesthetists' Association of United Kingdom	Research Excellence
2017	Best Poster Presentation Award (Risk Assessment and Management Category)	Obstetric Anaesthetists' Association of United Kingdom	Research Excellence
2018	Academic Enhancement Research Award	Australian and New Zealand College of Anaesthetists	Highest Ranked Research Grant
2019	The Elaine Lillian Kliver Research Award	Australian and New Zealand College of Anaesthetists	Research Excellence
2019	Department of Obstetrics and Gynaecology and New born Health scheme award (Strategic Award for Outstanding Women)	University of Melbourne (Department of Obstetrics and Gynaecology Scheme)	Research Excellence
2020	The Royal Women's Hospital	Length of Service Award	Dedication and service to the Royal Women's Hospital
2021	Australasian Invited Speaker Medal	Australian and New Zealand College of Anaesthetists	Research Excellence
2021	Dr Mary Burnell Medal	Australian and New Zealand College of Anaesthetists	Research Excellence
2021	The President's Award	Australian Society of Anaesthesia	<i>"For extraordinary service to the Society"</i> (A discretionary award. I am only the second anaesthetist to be awarded this award and medal in the last 10 years)
2023	Best paper presentation (Labor Analgesia Section)	Obstetric Anaesthetists Association of United Kingdom	Research Excellence

2023	Fulbright Future Scholarship	Fulbright Australia, The Kinghorn Foundation	Innovation in research and scientific excellence <i>Highest ranked scholar in Australia and the US in medical sciences for 2023</i>
2024	Douglas Joseph Professorship award	Australian and New Zealand College of Anaesthetists	Sustained scholarship and research excellence

Faculty Academic Appointments and Professorships:

2007-2010	Clinical lecturer	Medicine	University of Melbourne Parkville, Victoria Australia
2008-2017	Lecturer	Medicine	University of Melbourne Parkville, Victoria Australia
2010-2023	Associate Professor	Pharmacology	University of Melbourne Parkville, Victoria Australia
2013-ongoing	Associate Professor	Department of Obstetrics Gynaecology and Newborn Health	University of Melbourne Parkville, Victoria Australia <i>Ranked Number 1 University in Australia, Ranked number 1 in Medicine (QS World University Rankings 2024/QS Graduate Employability 2022)</i>
2018-ongoing	Professor (2024-ongoing) Associate Professor (2018-2024)	Department of Critical Care	University of Melbourne Parkville, Victoria Australia <i>Ranked Number 1 University in Australia, Ranked number 1 in Medicine (QS World University Rankings 2024/QS Graduate Employability 2022)</i>
2018-ongoing	Honorary Medical Researcher		Peter MacCallum Cancer Centre Melbourne, Victoria Australia
2020-ongoing	Professor	School of Medicine	Deakin University Waurm Ponds, Victoria Australia
2023-ongoing	Professor and research collaborator	Brigham and Women's Hospital	Boston, MA, US

*Ranked Number 1 in US for
Obstetrics and Gynaecology
(Obstetric anaesthesia)*

2024-ongoing	Douglas Joseph Professor	Australian and New Zealand College of Anaesthetists (ANZCA)	In recognition of “ <i>outstanding contribution to the advancement of the specialty</i> ” Only the ninth person to be awarded this in the last 25 years
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Appointments at Hospitals/Affiliated Institutions:

Pre-consultant level hospital work:

02/1995- 01/1996	Intern (Hospital medical officer)		St Vincent’s Hospital Fitzroy, Victoria Australia
02/1996- 01/1997	Resident (Hospital medical officer)		St Vincent’s Hospital Fitzroy, Victoria Australia
02/1997- 01/1998	Registrar Accredited (Year 1)	Anaesthetics	Box Hill Hospital Box Hill, Victoria Australia
02/1998- 01/2002	Registrar Accredited (Year 2-4)	Anaesthetics	St Vincent’s Hospital Fitzroy, Victoria Australia Mercy Hospital for Women, Heidelberg, Victoria Australia, Royal Children’s Hospital, Parkville, Victoria Australia
2001-2002	Fellowship Accredited (Year 5)	Obstetric Anaesthesia, subspecialty training (Passed First part exam and Second part exam on first attempt)	Mercy Hospital for Women Heidelberg, Victoria Australia
2002-2003	Post-FANZCA Fellowship training	Intensive Care Medicine, subspecialty training	St Vincent’s Hospital Fitzroy, Victoria Australia

Consultant level hospital work:

2003-2006	Specialist Anaesthetist	Anaesthetics	St Vincent’s Hospital Fitzroy, Victoria Australia
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2003-2010	Specialist Anaesthetist, Deputy Director of Anaesthesia (2007-2010)	Anaesthetics	Mercy Hospital for Women Heidelberg, Victoria Australia (tertiary centre Level 6 [Local care for all women and babies. Regional/statewide care for women and babies at high risk]) – Socio-Economic Index of patients = 5 (most advantaged) Socio- Economic Indexes for Areas (SEIFA), Australia 2021
2010-2023	Staff Specialist Anaesthetist, Director of Anaesthetics Research and inaugural Director of the Anaesthetics Research Centre	Anaesthetics	Royal Women’s Hospital Parkville, Victoria Australia ~ 7000 births per year (tertiary centre Level 6 [Local care for all women and babies. Regional/statewide care for women and babies at high risk]) – Socio-Economic Index of patients = 5 (most advantaged) Socio- Economic Indexes for Areas (SEIFA), Australia 2021
2023-ongoing	Specialist Anaesthetist	Anaesthesia and Perioperative Medicine	Joan Kirner Women’s and Children’s Sunshine Hospital, Western Health, Victoria Australia ~7700 births per year (tertiary centre Level 6 [Local care for all women and babies. Regional/statewide care for women and babies at high risk]) – Socio-Economic Index of patients = 5 (poorly advantaged) Socio- Economic Indexes for Areas (SEIFA), Australia 2021

Professorships awarded with International Initiatives, Programs, Centers, and Institutes:

2013	Visiting Professor	University of Cape Town, Visiting Professor Program	University of Cape Town, South Africa <i>Ranked number 1 in South Africa</i>
2023 - ongoing	Fulbright Scholar (Professor and Research Scholar)	The Fulbright Program - Fulbright Scholarship (Fulbright Future Scholar	Brigham and Women’s Hospital Boston, Massachusetts,

funded by the Kinghorn
Foundation)
Highest ranked scholar in
Australia and US for medical
sciences

Ranked Number 1 in US for
Obstetrics and Gynaecology
(Obstetric anaesthesia)

Major Administrative Leadership Positions:

Local

2003-2010	Module Supervisor, Obstetric Anesthesia (Australian and New Zealand College of Anaesthetists)	Mercy Hospital for Women Heidelberg, Victoria Australia
2007-2010	Deputy Director, Department of Anaesthesia	Mercy Hospital for Women Heidelberg, Victoria Australia
2011-2023	Director of Anaesthesia Research Centre, Department of Anaesthesia and Inaugural Director of the Anaesthesia Research Centre at the Royal Women's Hospital, Melbourne, Australia	Royal Women's Hospital Parkville, Victoria Australia
2013-2017	Deputy Chair Senior Medical Staff Association	Royal Women's Hospital Parkville, Victoria Australia

Committee Service:

Local

2011-2023	Human Research Ethics Committee	Royal Women's Hospital, Parkville, Victoria, Australia Committee member and Senior Medical Staff Representative
2015-2023	Tuesday Audit Group Team	Royal Women's Hospital, Parkville, Victoria, Australia Teamwork audits with consultant anaesthetists producing yearly audits
2022	National Clinical Trials Governance Framework Committee	Royal Women's Hospital Committee member representing Royal Women's Hospital, Parkville, Victoria, Australia
2022-ongoing	Data Safety and Monitoring Committee – Chair	DAISY Study, Latrobe University, Melbourne, Australia Chair of committee

2021-ongoing	The Royal Melbourne Hospital Human Research Ethics Committee	Royal Melbourne Hospital Parkville, Victoria, Australia Expert content reviewer ad hoc (obstetric anaesthesia)
2022-ongoing	Department of Critical Care Research Committee	University of Melbourne Department of Critical Care Parkville, Victoria, Australia Committee member
2025-ongoing	Department of Critical Care Executive Committee	University of Melbourne Department of Critical Care Parkville, Victoria, Australia Committee member
National		
2009-2010	Maternity Services Review Committee	Australia and New Zealand College of Anaesthetists
	Australian and New Zealand College of Anaesthetists representative	
2009-2010	Steering Group Core Competencies and Education Framework Australian and New Zealand College of Anaesthetists representative	Maternity Services in Australia Project
2009-2010	Collaboration in Maternity Services Scoping Group National Health and Medical Research Council representative	National Institute of Clinical Studies
2010-2011	Scoping group for the development of the Multidisciplinary Handbook for Maternity Providers Australian and New Zealand College of Anaesthetists representative	National Health and Medical Research Council
2014-2018	National Maternal Mortality Advisory Committee Steering Group Australian and New Zealand College of Anaesthetists representative	Australian Institute of Health and Welfare
2018-2019	National Strategic Approach to Maternity Services Advisory Group Australian and New Zealand College of Anaesthetists representative	Australian Government, Department of Health
2018-2019	Stakeholder Negotiations Committee for Anaesthesia Medicare Benefits Schedule (MBS) Review Australian Society of Anaesthetists representative	Australian Government, Department of Health

2020-2021	National Clinical Taskforce Writing Group for the Healthcare Associated Infection Standard Australian Society of Anaesthetists (ASA) representative	Australian Commission on Safety and Quality in Health Care
2023-ongoing	Steering Committee Australian Society of Anaesthetists (ASA) representative	Living Evidence for Australian Pregnancy and Postnatal care (LEAPP)
2025 (July) - ongoing	Education Committee, member	Australian Society of Anaesthetists (ASA)

International

2016-2025	Scientific Affairs Committee – Member (Australasian Representative)	World Federation of Societies of Anaesthesiologists (reappointed 2023)
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Professional Societies:

1995-ongoing	The Australian Medical Association	Member
1997-ongoing	Australian Society of Anaesthetists (ASA)	
	2016-2019	Public Practice Advisory Committee, Chair
	2016-2019	Professional Issues Advisory Committee, member
	2016-2019	Economics Advisory Committee, member
	2016-2019	Councilor
1997-ongoing	Australian and New Zealand College of Anaesthetists (ANZCA)	
	2007-ongoing	Obstetric Anaesthesia Special Interest Group, member
	2010-2013	Obstetric Anaesthesia Special Interest Group, Chair and Executive Board Member
	2017-2023	Research Committee, member
	2019-ongoing	Departmental Scholar Role Tutor
	2020-ongoing	Clinical Expert Advisory Group Member (COVID-19)

	2021-2023	Emerging Investigators subcommittee, Chair
2012-ongoing	Royal Australian and New Zealand College of Obstetricians and Gynecologists (RANZCOG)	
	2012-2016	Practical Obstetric Multi-Professional Training Steering Committee, Australian and New Zealand College of Anaesthetists representative
	2013-2015	RANZCOG College Position Statement 14: Provision of Obstetric Anaesthesia and Analgesia Services, Australian and New Zealand College of Anaesthetists representative
	2017-2018	Private Health Insurance in Obstetrics in Australia, Australian Society of Anaesthetists/Australian and New Zealand College of Anaesthetists representative
2007-ongoing	Society of Obstetric Medicine Australia and New Zealand (SOMANZ)	
	2020-2021	SOMANZ Hypertension in Pregnancy Guidelines, Steering Committee member
2007-ongoing	Society of Anesthesiology and Perinatology, USA (SOAP)	Member
2018-ongoing	Cochrane (formerly Cochrane Association)	Member
2020-ongoing	European Society of Cardiology	Member
2020-ongoing	Australian Institute of Company Directors	Graduate
2020-ongoing	Women on Boards	Member
2022-ongoing	Obstetric Anaesthetists' Association of the United Kingdom	Member
2022-ongoing	American College of Obstetricians and Gynecologists	Member
2023-ongoing	Australian Fulbright Alumni Association	Member

Grant Review Activities (Honorary):

2017-2023 Research Committee

Australian and New Zealand College of Anaesthetists

Member

Editorial Activities:

Editorial Roles

2013-2017	Editorial Advisory Board member	International Journal of Obstetric Anesthesia (journal)
2013-ongoing	Editorial Board member	Obstetric Anesthesia Digest (journal)
2013-ongoing	International Advisory Panel Executive Member/ Associate Editor	Anaesthesia (journal) <i>Number 3 ranked Anesthesiology journal globally – Impact factor 7.5 (2024)</i>
2017 – ongoing	Australasian Anaesthesia (The Blue Book) Victorian Regional Editor	Australasian Anaesthesia 2017: Invited papers and selected continuing education lectures 2017 Edition, ANZCA, Melbourne, Australia ISBN 978-0-9945075-6-3 (Riley, R, Ed.) Australasian Anaesthesia 2019: Invited papers and selected continuing education lectures 2019 Edition, ANZCA, Melbourne, Australia, ISBN 978-0-9945075-6-3 (Riley, R, Ed.) Australasian Anaesthesia 2021: Invited papers and selected continuing education lectures 2021 Edition, ANZCA, Melbourne, Australia ISBN 978-0-6451472-1-6 (Riley, R, Ed.) Australasian Anaesthesia 2023: Invited papers and selected continuing education lectures 2023 Edition, ANZCA, Melbourne, Australia ISBN 978-0-6451472-2-3 (Doane, MA, Ed.) Australasian Anaesthesia 2025: Invited papers and selected continuing education lectures 2025 Edition, ANZCA, Melbourne, Australia (Doane, MA, Ed.) <i>A new book is produced every two years.</i>

Chapters edited

1. Dennis AT (editor) 2017 Chapter: Griffiths J. Abdominal wall blocks – steps to quality assurance and managing risk

2. Dennis AT (editor) 2017 Chapter: Nicholson JJ, Bradley WPL, Stefanutto T, Downey GO, Berkow L. Airway management after cervical spine surgery: A review of the literature
3. Dennis AT (editor) 2017 Chapter: Bain C, Bozaoglu. Epigenetics and anaesthesia
4. Dennis AT (editor) 2017 Chapter: Juniper R. Free open access online education in anaesthesia
5. Dennis AT (editor) 2017 Chapter: Balson IF. Trainee monitoring – Tips to setting up a program and issues encountered along the way
6. Dennis AT (editor) 2019 Chapter: Cormack J, Grimmett, Shan D. Flexible bougies, introducers and bronchoscopes – Key adjuvants in the Age of Videolaryngoscopes
7. Dennis AT (editor) 2019 Chapter: Marshall S. Human Factors in Anaesthesia: Beyond Non-technical Skills
8. Dennis AT (editor) 2019 Chapter: Szabo R, Allen K, Millay OJ. Role of simulation in obstetric anaesthesia training
9. Dennis AT (editor) 2021 Chapter: Sheridan N, Marane C. Clinical Leadership in Uncertain Times
10. Dennis AT (editor) 2021 Chapter: Hessian E, Savulescu J. Socrates, Plato and the Healthcare Worker’s Duty to Serve
11. Dennis AT (editor) 2021 Chapter: Bolton C. Medicolegal insights into anaesthesia
12. Dennis AT (editor) 2021 Chapter: Szental J, Chahal R, Millar G. Use of mobile applications in perioperative medicine
13. Dennis AT (editor) 2021 Chapter: Gynther A, Pearson F, McGain F. Nitrous oxide use on the labour ward: efficacy and environmental impact
14. Dennis AT (editor) 2021 Chapter: Khoyratty S, Mehra R, Paul A. Benefits of anaesthesia preassessment clinics
15. Dennis AT (editor) 2021 Chapter: Hendel S, Lacey J. Media moments for anaesthetists

16. Dennis AT (editor) 2023 Chapter: Engelbrecht M, Khoyratty S, Reilly J. Adult Perioperative Risk Stratification (published during Fulbright time)
<https://doi.org/10.60115/11055/1190>
17. Dennis AT (editor) 2023 Chapter: Nguyen MT, Szentl J, Bramley D. A narrative review of the perioperative management of DMARDs (published during Fulbright time)
<https://doi.org/10.60115/11055/1194>
18. Dennis AT (editor) 2025 Chapter: Arduini F, Markman P, Shoemaker H, King C. Are you thirsty? Changing the liquid fasting paradigm – The ‘Sip Til Send’ Initiative.
<https://doi.org/10.60115/11055/1372>
19. Dennis AT (editor) 2025 Chapter: Zeng J. Humanising Digital Anaesthesia
<https://doi.org/10.60115/11055/1373>
20. Dennis AT (editor) 2025 Chapter: Lim E, Szentl J, Hamblin S. GLP-1 receptor agonist – an evolving paradigm in perioperative medication management.
<https://doi.org/10.60115/11055/1383>
21. Dennis AT (editor) 2025 Chapter: Rao P, Taylor D, Dawes A. Birth trauma and the anaesthetist.
<https://doi.org/10.60115/11055/1306>

2021-2022 Member of Editorial Board Anaesthesia and Intensive Care (journal)
Section editor of obstetric anaesthesia

Ad hoc Reviewer:

Cochrane Pregnancy and Childbirth Group
British Journal of Anaesthesia
Anaesthesia and Intensive Care
International Journal of Obstetric Anesthesia
Hypertension in Pregnancy
Anesthesia Analgesia
BMC Pregnancy and Childbirth

Report of Funded and Unfunded Projects and Honorariums

Past funded

2007-2010 Cardiac Function in Women with Preeclampsia
Total funding AU\$47,500.00 made up as follows: -
LMA Pacific Medical Fellowship, Australian Society of Anaesthetists, AU\$10,000.00
Edwards Lifesciences Educational Grant, Edwards Lifesciences, AU\$17,500.00
Jackson Rees Research Grant, Australian Society of Anaesthetists, AU\$20,000.00

Postgraduate researcher

Major goal was to identify the haemodynamics of people with preeclampsia and compare that to the cardiac function in healthy pregnant people. To define cardiac function in non-human primates (baboons) through animal work.

- 2013-2017 Association between maternal size and outcomes for caesarean section (The MUM SIZE study)
Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00
Australian Clinical Trials Registry Number 1261300060876
Principal investigator, regional multicenter research collaboration (The University of Melbourne plus seven regional hospitals in Victoria, Australia)
Major goal was to define the relationship between maternal body mass index and outcomes related to cesarean section anesthesia.
- 2013-2021 Maternal ophthalmic artery Doppler waveform analysis in the assessment and management of preeclampsia
Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00
Supervisor and associate investigator
Major goal was to determine changes in ophthalmic artery Doppler waveform and optic nerve sheath diameter in people with preeclampsia.
- 2014-2016 Quality of Recovery Instruments
Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00
Principal site investigator, local multicenter research collaboration (The University of Melbourne and Monash University, plus two hospitals in Melbourne, Australia)
Major goal was to define the clinically relevant change in recovery scores after surgery.
- 2014-2023 The prone position in women with preeclampsia
Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00
Partially funded by Research Grant AEG 18_002, Australian and New Zealand College of Anaesthetists, 2018, AU\$109,507.00
Australian Clinical Trials Registry Number 12615000160538
Principal and coordinating investigator
Major goal was to determine whether the prone position in people with preeclampsia reduces blood pressure.
- 2015-2023 Optimal positioning in term pregnant women
Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00
Partially funded by Research Grant AEG 18_002, Australian and New Zealand College of Anaesthetists, 2018, AU\$109,507.00
Principal and coordinating investigator
Major goal was to determine the optimal maternal position in relation to hemodynamics for cesarean section surgery.
- 2017-2020 The Baby-Directed Umbilical Cord Clamping Study (The Baby-DUCC Study)
Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00
Principal site investigator (Anaesthesia)

Major goal was to determine the safety and feasibility of delayed cord clamping in newborn babies at cesarean section.

Current funded

- 2010-ongoing Cardiac function using echocardiography in women with preeclampsia (A Program of Studies)
Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00, *Academic enhancement grant 18/002 AU\$109,507 Australian and New Zealand College of Anaesthetists*
Australian Clinical Trials Registry Number 12611000853943
Principal and coordinating investigator
Major goal is to continue to investigate the hemodynamics of people with preeclampsia in the perioperative and peripartum setting, including with changes in posture, and with pharmacological interventions.
- 2013-ongoing Transthoracic Echocardiography in Pregnant Women
Visiting Scholars Research Fund, University of Cape Town, AU\$2,000.00
Australian Clinical Trials Registry Number 12613000992707
Principal and coordinating investigator, international multicenter research collaboration (Cape Town, South Africa; Melbourne, Australia)
Major goal is to further investigate the hemodynamics of people with preeclampsia in an unwell population in South Africa
- 2013-ongoing Blood pressure lability in primate pregnancy
Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00
Supervisor and associate investigator
Major goal is to define blood pressure changes in an animal model of preeclampsia, including with pharmacological interventions.
- 2014-ongoing Gestational trophoblastic disease and preeclampsia
Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00
Principal and coordinating investigator
Major goal is to classify the etiology of hypertension in people with gestational trophoblastic disease to challenge current ideas in relation to placental origins of hypertension in people with preeclampsia.
- 2014-ongoing Haemodynamics and myocardial tissue characteristics in women with preeclampsia
Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00
Mundipharma Research Grant (14/007), Australian and New Zealand College of Anaesthetists, 2014, AU\$59,246.00, and DJP 17/004 Australian and New Zealand College of Anaesthetists, \$72,000
Principal and coordinating investigator
Major goal is to determine the structure of the heart in people with preeclampsia using cardiac magnetic resonance imaging.

- 2015-ongoing The Six Minute Walk Test in Pregnant Women – Exercise Testing in Pregnant People Using The Six Minute Walk Test, The Incremental Shuttle Walk Test, and Cardiopulmonary Exercise Testing (A program of Studies)
Total funding of AU\$55,249.00, made up of
Small Projects Grant, Obstetric Anaesthetists Association of the UK, 2015, AU\$10,176.00
Research Grant LTP 19_003, Australian and New Zealand College of Anaesthetists, AU\$45,073.00, Academic enhancement grant 18/002 AU\$109,507 Australian and New Zealand College of Anaesthetists
Australian Clinical Trials Registry Number 12615000964516
Principal and coordinating investigator
Major goal is to define reference values for the Six Minute Walk Test, the Incremental Shuttle Walk Test, and Cardiopulmonary Exercise Testing hemodynamics, respiratory function, gas exchange, and response to exercise in pregnant people.
- 2016-ongoing High flow humidified nasal oxygen in pregnant women (A Program of Studies)
Project Grant 23_027, Australian and New Zealand College of Anaesthetists, 2022, AU\$122,921.00
Australian Clinical Trials Registry Number 12616000531415p (HINOP1), 12619000620123p(HINOP2) and 12624000283572 (HINOP3), 12622000551796 (HOPE-for-Remi), 12625000251426 (HINOP-Hypertension) – world first study into the use of HFNO as a treatment intervention in patients with hypertension in pregnancy [ANZCTR - Registration](#)
Supervising and coordinating investigator (PhD supervisor for Dr Patrick Tan)
Major goal is to determine the safety, feasibility and clinical applications of high flow humidified nasal oxygen in pregnant people, starting with those who are healthy, then moving into people with higher body mass, and then those with critical illness
- 2017-ongoing Contemporary informed consent in obstetric anaesthesia - what women want to know
Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00
Principal site investigator (Anaesthesia)
Major goal is to determine what pregnant people would like to know with respect to analgesia and anesthesia in the perioperative period.
- 2018-ongoing Perineal injury in women undergoing vaginal birth
Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00
Supervising and coordinating investigator
Major goal is to determine the practice in relation to the prescription of analgesia for people who have suffered a perineal injury, and to raise the profile of this serious birth problem.
- 2018-ongoing Perioperative anemia in pregnant women
Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00
Supervising and coordinating investigator

Major goal is to report the incidence and prevalence of perioperative anemia in pregnant people undergoing cesarean section surgery.

2019-ongoing

The Use of Epidural Analgesia and Anaesthesia for Vaginal Twin Birth

Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00

Supervising and coordinating investigator

Major goal is to determine whether local practice guidelines are being followed in relation to the use of epidural analgesia for planned vaginal twin birth.

2019-ongoing

Haemoglobin measurement using three different techniques in women undergoing planned vaginal birth

Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00, Academic enhancement grant 18/002

AU\$109,507 Australian and New Zealand College of Anaesthetists

Australian Clinical Trials Registry Number 12619000247178p

Supervising and coordinating investigator

Major goal is to compare three different techniques for measuring hemoglobin with laboratory measurements in order to develop a quick, easy and accurate bedside test for hemoglobin in pregnant people.

2019-ongoing

Perioperative complications in women with preeclampsia

Partially funded by National Health and Medical Research Council Australia Fellowship, 2016, AU\$187,322.00

Supervising and coordinating investigator

Major goal is to determine the rate of perioperative complications in patients with preeclampsia undergoing cesarean section.

2020-ongoing

Intravenous lignocaine for the prevention of chronic postsurgical pain in women undergoing caesarean section (The I-Caesar Study - feasibility and safety)

Partially funded by Research Grant AEG 18_002, Australian and New Zealand College of Anaesthetists, 2018, AU\$109,507.00

Australian Clinical Trials Registry Number 12620000203954

Supervising and coordinating investigator

Major goal is to determine the feasibility and safety of intravenous lignocaine given during cesarean section to reduce the incidence of chronic pain after this surgery.

2020-ongoing

Maternal Anaemia and Postoperative Outcomes after Caesarean section surgery (The MAPOC Study - feasibility)

Partially funded by Research Grant AEG 18_002, Australian and New Zealand College of Anaesthetists, 2018, AU\$109,507.00

Australian Clinical Trials Registry Number 12621001066875p

Supervising and coordinating investigator

Major goal is to undertake a feasibility study examining the relationship between the presence of anemia in patients undergoing cesarean section and outcomes after surgery.

2023-ongoing

The Hopeful Hearts Project (Fulbright project undertaken at Brigham and Women's Hospital) Institutional Research Board approval obtained for study (BWH IRB number 2023P002364) (24 September 2023) Clinical trials registry approval (ClinicalTrials.gov NCT06099275) (24 October 2023)

Non-institutional Principal Investigator
 Douglas Joseph Professorship with grant to support second site – Joan Kirner
 Women’s and Children’s Sunshine Hospital, Melbourne Australia DJP 25_01
 \$69,828
 Major goal is to determine cardiac function (hemodynamics) in people with
 untreated preeclampsia
 Major research study undertaking and continuing as part of Fulbright Scholarship

Funding for academic and career development

2019 - ongoing Awarded by the University of Melbourne, Department of Obstetrics and Gynaecology
 (University of Melbourne Strategic Award for Outstanding Women)
 Amount: AUD \$41,925
 Activities funded: Company Directors Course – Australian Institute of Company
 Directors
 Employment of a personal assistant (executive level) – To be arranged
 There are two major goals of this award. The first was to develop skills in governance
 and enhanced leadership and to achieve the status of a graduate of the Australian
 Institute of Company Directors (GAICD) only awarded to those who have passed a
 stringent examination. This has been completed. The purpose of this was to enable me
 to have high level skills to enable me to join Boards including at a Chair level. The
 second goal of this award was to employ an executive level personal assistant to
 coordinate the multitude of activities that I undertake and support my continuing
 development and career progression including website maintenance, research
 coordination and my developing teaching program. The employment of such a person
 has not been achieved yet and is to be arranged

Projects Submitted for Funding

2023-2024 Point-of-Care Ultrasound for Acute Obstetric Care: Training Anesthesiologists to
 Address a Critical Gap on Labor and Delivery - Dr Bushra Taha
 Department of Anesthesiology, Perioperative Medicine and Pain Medicine, Brigham
 and Women’s Hospital, Boston, US
 Faculty Development Starter Grant
 Role: Collaborator (Mentor)
 The major goal of this project is to implement an innovative educational curriculum for
 point of care ultrasound (POCUS) in high-risk obstetric anesthesia patients.

Honorariums

2025 (Nov) Australian Society of Anaesthetists (ASA)
 Australasian Invited Speaker role
 Registration, accommodation, daily per diem funding and speaker fee

Report of Teaching and Training

Teaching of Students in Courses:

2011-2017	Science Unit 534-304 Semester II – Pregnancy – Drug effects and preeclampsia Undergraduate medical students	The University of Melbourne, Parkville, Australia 1 hr/semester
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2021	Student Research Study Examiner	University of Melbourne, Parkville, Australia
	Undergraduate medical students	10 hrs for examination

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs):

2001-ongoing	Resident and Fellow Tutorial Program – formal and informal teaching and education	St Vincent’s Hospital Melbourne Australia Mercy Hospital for Women Melbourne Australia
	Regular tutorials covering all aspects of obstetric anaesthesiology, analgesia, perioperative and critical care medicine	Royal Women’s Hospital Melbourne Australia Joan Kirner Women’s and Childrens Hospital Sunshine Australia
	Anesthesiology residents and Fellows	1 hr/week on average for 22 years
2023 1/11	Fellow teaching – Preeclampsia and echocardiography	1hr (During Fulbright Scholarship – Visiting Professor and Research Scholar)
2023 2/11	Resident and Fellow teaching – Axioms of obstetric anaesthesiology	1 hr (During Fulbright Scholarship – Visiting Professor and Research Scholar)
2023 3/11	Resident and Fellow teaching – Obstetric anaesthesiology emergencies	1 hr (During Fulbright Scholarship – Visiting Professor and Research Scholar)
2023 7/11	Resident and Fellow teaching – Heart failure in pregnant people	1 hr (During Fulbright Scholarship – Visiting Professor and Research Scholar)
2023 11/13	Resident and Fellow teaching – Future priorities in obstetric anaesthesiology and training	1 hr (During Fulbright Scholarship – Visiting Professor and Research Scholar)

Clinical Supervisory and Training Responsibilities:

2002-ongoing	Supervision of anaesthesiology residents and Fellows in the perioperative setting, including in the operating theatre	St Vincent’s Hospital Melbourne Mercy Hospital for Women Melbourne Royal Women’s Hospital Melbourne Joan Kirner Women’s and Children’s Hospital Sunshine Australia
	Anesthesiology residents and Fellows	10 - 30 hr/week clinical work (in theatre supervision)

Research Supervisory and Training Responsibilities:

2011-ongoing	Scholarly role mentor for anaesthesia trainees	Australia and New Zealand College of Anaesthetists
	MD and anaesthesiology trainees	2 hr/week
2012-2023	Scholarly selective supervisor for the MD program	The University of Melbourne, Parkville, Australia
	MD trainees	2 hr/week

2015-ongoing	Department of Anaesthesia mentorship program for anaesthesia trainees Anaesthesia trainees	The Royal Women's Hospital, Parkville, Australia 1 hr/week
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Mentored Trainees and Faculty (59 people supervised to successful completion of work):

2010	C Lai, MBBS / Anesthesiologist, Australia	<i>Career stage:</i> Anesthesiology Fellow <i>Mentoring role:</i> Research supervisor (Project title "High output cardiac failure in a woman with hereditary haemorrhagic telangiectasia")
2010	2010 First author of peer-reviewed publication in international journal K Brown, MBBS / Anesthesiologist, Australia	<i>Career stage:</i> Anesthesiology Fellow <i>Mentoring role:</i> Research supervisor (Project title "Minimising maternal mortality and morbidity from postpartum haemorrhage: Early warning, appropriate training and the impact of trauma-based blood transfusion")
2010	S Woods, MBBS / Anesthesiologist, UK	<i>Career stage:</i> Anesthesiology Fellow <i>Mentoring role:</i> Research supervisor (Project title "The impact of participating in research as a pregnant woman")
2011	T McCarthy, MBBS / Anesthesiologist, UK	<i>Career stage:</i> Anesthesiology Fellow <i>Mentoring role:</i> Research supervisor (Project title "Comparing the reliability of continuous with intermittent blood pressure monitoring during elective caesarean birth under spinal anaesthesia") 2011 First author of poster at national meeting 2012 First author of peer-reviewed publication in international journal
2011	N Telac, MBBS / (deceased)	<i>Career stage:</i> Anesthesiology Fellow <i>Mentoring role:</i> Research supervisor (Project title "Comparing the reliability of continuous with intermittent blood pressure monitoring during elective caesarean birth under spinal anaesthesia") 2011 Co-author of poster at national meeting 2012 Co-author of peer-reviewed publication in international journal
2011	K Bakyew, MBBS / Anesthesiologist, Australia	<i>Career stage:</i> Anesthesiology Fellow <i>Mentoring role:</i> Research supervisor (Project title "An evidence based review of obstetric critical care in Australia: management of the critically ill pregnant or recently pregnant, women")
2011	H Butler, MBBS / Anesthesiologist, Australia	<i>Career stage:</i> Anesthesiology Fellow <i>Mentoring role:</i> Research supervisor (Project title "The effect of postural changes on haemodynamics in the pregnant woman")

- 2011 G Symons, MBBS / Anesthesiologist, Australia
Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “Epidural ultrasound as a teaching and training tool in obstetric anaesthesia”)
 Subsequently became a full-time staff specialist and supervisor of training at Western Health, Melbourne, Australia
- 2011 A Stenson, MBBS / Anesthesiologist, Australia
Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “The use of transthoracic echocardiography in postpartum hypotension”)
 2012 Co-author of peer-reviewed publication in international journal
 Subsequently obtained a position at the Royal Women’s Hospital, Melbourne, Australia
- 2012 S Griffiths, MBBS / Anesthesiologist, UK
Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “The effect of passive leg raising on haemodynamics in healthy term pregnant women”)
 2012 First author of two peer-reviewed abstracts in international journals
 2012 First author of poster presented at a national meeting
 2018 First author of peer-reviewed publication in international journal
- 2012 M Lee, MBBS / Anesthesiologist, Australia
Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “Management of labour and birth in a woman with refractory supraventricular tachycardia”)
- 2012 L Miles, MBBS, PhD / Anesthesiologist, Australia
Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “The use of magnesium sulphate by ambulance paramedics in Victoria”)
 2012 First author of peer-reviewed national journal publication
 Subsequently achieved a PhD and full-time staff specialist position, and A/Prof in Department of Critical Care University of Melbourne.
- 2012 Jen Dixon, MBBS / Anesthesiologist, Australia
Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “Maternal Transthoracic Echocardiographic Appearances at the Time of Caesarean Birth in Healthy Women”)
 2012 Co-authored two peer-reviewed conference abstracts for national meetings
 Subsequently obtained a position at the Royal Women’s Hospital, Melbourne, Australia
- 2013-2014 S Mulligan, MD / Anesthesiologist, Australia
Career stage: Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title

- “Analgesic requirements and pain experience after caesarean section under neuraxial anaesthesia in women with preeclampsia”
- 2013-ongoing S Pears, MBBS / Veterinarian, Australia
Career stage: PhD student *Mentoring Role:* Co-supervisor of PhD project, University of Sydney, Sydney, Australia (Thesis title: “Blood pressure lability in primate pregnancy”)
- 2015 First author peer-reviewed abstract, and awarded Best Student Poster Award, at High Blood Pressure Research Council Annual Scientific Meeting, High Blood Pressure Research Council Australia, Melbourne, Australia
 2016 First author peer-reviewed abstract in international journal
- 2013-2014 E Chambers, MD / Anesthesiologist, Australia
Career stage: Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title “Blood pressure assessment and first line pharmacological agents in women with eclampsia”)
- 2013-2021 Stefan Kane, MBBS, PhD / Obstetrician and Gynaecologist, Director of Obstetrics, Royal Women’s Hospital, Melbourne
Career stage: Obstetric Fellow *Mentoring role:* Co-supervisor of PhD project, University of Melbourne, Melbourne, Australia (Thesis title “Maternal ophthalmic artery Doppler waveform analysis in the assessment and management of preeclampsia”).
 Subsequently became director of obstetrics at the Royal Women’s Hospital, Melbourne Australia
- 2013 M Morosan, MBBS / Anesthesiologist, Australia
Career stage: Anesthesiology Fellow *Mentoring role:* Co-investigator (Project title “Acute fatty liver of pregnancy – 10-year retrospective review of cases at a tertiary referral obstetric hospital”)
- 2013 Co-author of two peer-reviewed abstracts at regional conference
- 2013 J Walsh, MBBS / Anesthesiologist, Australia
Career stage: Anesthesiology Fellow *Mentoring role:* Co-investigator (Project title “Australasian obstetric neuraxial antisepsis survey”)
- 2014 Co-author of peer-reviewed abstract in international journal
- 2013 D Leung, MBBS / Anesthesiologist, Australia
Career stage: Anesthesiology Fellow *Mentoring role:* Co-investigator (Project title “Australasian obstetric neuraxial antisepsis survey”)
- 2014 First author of peer-reviewed abstract in international journal
- 2014 G Gerstman, MBBS / Anesthesiologist, UK

Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “Management of labour and birth in a woman with refractory supraventricular tachycardia”)

2014 Co-author of peer-reviewed publication in international journal

2014 N MacDonald, MBBS / Anesthesiologist, Australia

Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “Measuring acute postoperative pain using the visual analog scale: the minimal clinically important difference and patient acceptable symptom state”)

2016 Co-author of peer-reviewed publication in international journal

2017 Co-author of peer-reviewed publication in international journal

Subsequently obtained a position at the Royal Women’s Hospital, Melbourne, Australia

2014 A Coowar, MBBS / Anesthesiologist, Australia

Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “Obstetric admissions to an intensive care unit”)

2016 First author of poster presented at a local meeting

2014-2015 M Warren, MD / Anesthesiologist, Australia

Career stage: Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title “Immediate birth – an analysis of women undergoing time critical birth in a tertiary referral obstetric hospital – neonatal outcomes”)

2014-2015 J Kamania, MD / Anesthesiologist, Australia

Career stage: Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title “Immediate birth – an analysis of women undergoing time critical birth in a tertiary referral obstetric hospital – maternal outcomes”)

2014-2015 B Knox, MD / Obstetric Fellow, Australia

Career stage: Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title “Gestational trophoblastic disease and preeclampsia”)

2014-2015 L Hardy, MD / Anesthesiologist, Australia

Career stage: Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title “Defining a reference range for vital signs in healthy term pregnant women”)

2014-2017 M Gibbs, MD / Anesthesiologist, Cape Town, South Africa

Career stage: Anesthesiology Fellow *Mentoring role:* Co- supervisor of Master’s Project, University of Cape Town, Cape Town, South Africa (Thesis title “Hemodynamics in pregnant women with HIV”)

2014 Presented poster at an international meeting and was awarded Best Student Presentation Award, The Obstetric Anaesthetists Association of United Kingdom, Dublin, Ireland

2014 Co-author of five peer-reviewed international abstracts

2015 Co-author of peer-reviewed publication in international journal

2015 J Ozcan, MBBS / Anesthesiologist, Australia

Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “New diagnosis myasthenia gravis and preeclampsia in late pregnancy”)

2015 First author of peer-reviewed case report published in international journal

Subsequently became a full-time staff specialist and supervisor of training at Western Health, Melbourne

2015-2016 E Paxton, MD / Anesthesiologist, Australia

Career stage: Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title “The Six Minute Walk test in pregnant women – late pregnancy group”)

2016 Ian Balson, MBBS / Anesthesiologist, Australia

Career stage: Senior Anesthesiologist *Mentoring role:* professional development in staff welfare role. I nominated Dr Balson for the Dr Ray Hader Award for Pastoral Care, for which he was successful. I then mentored him in writing a book chapter (for Australasian Anaesthesia) about a staff welfare program in the Royal Women’s Hospital’s anesthetic department.

2016-ongoing Patrick Tan, MBBS / Deputy Director of Anaesthetics, Royal Women’s Hospital, Parkville, Victoria, Australia

Career stage: Anesthesiology Registrar. *Mentoring role:* research and career advisor; principal PhD supervisor in Department of Critical Care University of Melbourne.

Accomplishments:

2016 Commenced Fellowship Research Study under my supervision and program of studies, which was awarded

2016 Kevin McCaul Prize for the best research paper or critical review on women’s health by an early career anaesthetist or trainee, Australian Society of Anaesthetists

2018 commenced PhD with me as Principal Supervisor, University of Melbourne, Melbourne, Australia (Thesis title “High flow humidified nasal oxygen in pregnant women”)

Multiple first-authored national and international abstracts, papers, and presentations resulting from mentored research under my supervision.

Multiple regional, national and international research awards resulting from mentored research:

2018 Awarded “Best trainee presented research of the meeting” at Victorian Registrars’ Scientific Meeting, Australian and New Zealand College of Anaesthetists, Melbourne, Australia

2018 Awarded “Inaugural Michael Paech Research Prize – Best research of the meeting” at Obstetric Anaesthesia Special Interest Group Meeting, Australian and New Zealand College of Anaesthetists / Australian Society of Anaesthetists / New Zealand Society of Anaesthetists, Sydney, Australia

2018 Awarded “Felicity Reynolds Prize - Best research of the meeting” at Obstetric Anaesthetists Association Annual Scientific Meeting, The Obstetric Anaesthetists Association of United Kingdom, Belfast, Northern Ireland

2019 Awarded “Junior Researcher Award” by international journal Anaesthesia and Intensive Care, Australian Society of Anaesthetists
 2020 Awarded “ANZCA Melbourne Emerging Anaesthesia Researcher Award”, Australian and New Zealand College of Anaesthetists
 2021 Awarded “Gilbert Brown Prize” at Australian and New Zealand College of Anaesthetists Annual Scientific Meeting, Melbourne, Australia
 2021 Awarded “Felicity Reynolds Prize - Best research of the meeting” (for the second time) at Obstetric Anaesthetists Association Annual Scientific Meeting, The Obstetric Anaesthetists Association of United Kingdom
 2022 Awarded “Student Research Symposium Best Postgraduate Presentation”, Royal Women’s Hospital, Parkville, Victoria, Australia
 2023 Awarded “Skantha Vallipuram Research Scholarship”, Australian and New Zealand College of Anaesthetists
 2023 Promoted to Deputy Director of Anaesthesia, Royal Women’s Hospital, Parkville, Victoria, Australia
 2025 *Melbourne Emerging Anaesthesia Researcher Scholarship* comprising \$25,000 for pilot study “Short term haemodynamic effects of high-flow humidified nasal oxygen in pregnant patients with hypertension”.

2016-2017 A Francis, MD / Obstetric Fellow, Australia

Career stage: Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title “The Six Minute Walk test in pregnant women – early pregnancy group”)

2016-2017 T Mahendrayogam, MBBS / Anesthesiologist, UK

Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “Optimal positioning for haemodynamics in term pregnant women”)

2017 Co-author of peer-reviewed published abstract in international journal
 2017 Co-author of poster presented at international meeting
 2018 Co-author of peer-reviewed publication in international journal

2016-2017 A Buckley, MBBS / Anesthesiologist, UK

Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “Optimal positioning for haemodynamics in term pregnant women”)

2017 Co-author of peer-reviewed published abstract in international journal
 2017 Co-author of poster presented at international meeting
 2018 Co-author of peer-reviewed publication in international journal

2016-2017 J Chan, MBBS / Anesthesiologist

Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “Prospective audit of women’s experience with epidural analgesia in a tertiary obstetric hospital”)

2017 First author of poster presented at national meeting

2016-2018 M Salman, MBBS / Anesthesiologist, UK

- Career stage:* Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “The Six Minute Walk test in pregnant women”)
- 2017 First author of two posters, and second author of a third poster, presented at international meeting, and was awarded Best Poster Presentation, Obstetric Anaesthetists’ Association Annual Scientific Meeting, Brussels, Belgium
- 2017 First author and second author, respectively, of two peer-reviewed abstracts in an international journal
- 2019 Co-author of peer-reviewed publication in international journal
- 2016-2018 M Bright, MD / Anesthesiology Fellow, Australia
- Career stage:* Third Year Medical Student, MD *Mentoring role:* Research Supervisor (Cochrane Review title “Combined spinal epidural versus single shot spinal for caesarean section”)
- 2019 Co-author of Cochrane Systematic Review
- 2017-ongoing M Ferguson, MBBS, MD / Anesthesiologist
- Career stage:* Anesthesiology Fellow *Mentoring role:* Clinical research supervisor.
- 2017 Commenced research under my supervision as part of Dr Ferguson’s fellowship research study (Project title “Defining perioperative anaemia in pregnant women”).
- 2018 Awarded the 2018 Kevin McCaul Prize for the best research paper or critical review on women’s health by an early career anaesthetist or trainee, Australian Society of Anaesthetists
- 2018 First author poster presentation at international meeting Obstetric Anaesthetists’ Association Annual Scientific Meeting, Belfast, Northern Ireland
- 2018 First author peer-reviewed abstract in international journal
- 2019 First author peer-reviewed publication in international journal
- 2022 Co-author peer-reviewed publication in international journal
- Subsequently obtained a research higher degree and is a member of the Department of Critical Care University of Melbourne
- 2017-2019 S Jackson, MD / General Practitioner (PCP), Australia
- Career stage:* Medical Student *Mentoring role:* Research supervisor (Project title “Perioperative anaemia in pregnant women”)
- 2018 Co-author of peer-reviewed abstract in international journal, and poster presented at international meeting
- 2022 Co-author of peer-reviewed publication in international journal
- 2017-2018 T Sugrue, MD / General Practitioner (PCP), Australia
- Career stage:* Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title “The Six Minute Walk test in pregnant women – mid-pregnancy group”)
- 2017-2018 B Moore, MD / General Practitioner (PCP), Australia
- Career stage:* Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title “Informed consent for obstetric anaesthesia and analgesia – what do women want?”)
- 2018-2019 M Spicer, MD / Obstetric Registrar, Australia

Career stage: Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title “The Six Minute Walk test in pregnant women – non-pregnant control group”)

2023 Co-author of peer-reviewed publication in international journal

2024 Co-author of peer-reviewed publication in international journal

2019 J Wang, MBBS / Anesthesiologist, Australia

Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “Informed Consent for obstetric anaesthesia and analgesia in pregnant women”)

Subsequently obtained a position at the Royal Women’s Hospital, Melbourne, Australia

2019-2022 K Zhang, MD, MPH / Obstetric Registrar, Australia

Career stage: Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title “Epidural use in women undergoing vaginal birth for twin pregnancy”)

2019-2020 Ezra Keebaugh, MBBS / Anesthesiologist, Australia

Career stage: Anesthesiology Fellow *Mentoring role:* Clinical research supervisor.

2019 Commenced research under my supervision as part of Dr Keebaugh’s fellowship research study (Project title “Critical deterioration of women following caesarean section surgery”).

Subsequently obtained a position at the Royal Women’s Hospital, Melbourne, Australia

2020 Awarded the 2020 Kevin McCaul Prize for the best research paper or critical review on women’s health by an early career anaesthetist or trainee, Australian Society of Anaesthetists

2020 First author of an invited commentary in Obstetric Anaesthesia Digest

2019-ongoing Gloria Seah, MBBS / Anesthesiologist and pain medicine specialist, Australia

Career stage: Anesthesiology Fellow *Mentoring role:* Clinical research supervisor.

2019 Commenced research under my supervision as part of Dr Seah’s dual obstetric and pain medicine fellowship research study (Project title “Intravenous lignocaine for the prevention of chronic postoperative pain in women undergoing caesarean section”).

2019 Awarded the 2019 Kevin McCaul Prize for the best research paper or critical review on women’s health by an early career anaesthetist or trainee, Australian Society of Anaesthetists

2019-2020 M Worboys, MD / General Practitioner (PCP), Australia

Career stage: Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title

“Prevention of chronic postoperative pain in women undergoing caesarean section surgery – emergency patients”)

2019-2020 M D’Silva, MD / General Practitioner (PCP), Australia

Career stage: Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title “Prevention of chronic postoperative pain in women undergoing caesarean section surgery – elective patients”)

2019-2020 B S Unal, MD / Obstetric Registrar, Australia

Career stage: Third year medical student. *Mentoring role:* Principal supervisor of 3rd/4th year University of Melbourne Medical Student Research Project (Thesis title “Perioperative issues in pregnant women with hypertension undergoing caesarean section surgery”)

2020-ongoing Mark O’Donnell, MBBS / Anesthesiologist, Australia

Career stage: Anesthesiology Fellow *Mentoring role:* Clinical research supervisor.

2020 Commenced research under my supervision as part of Dr O’Donnell’s fellowship research study (Project title “Maternal Anaemia and Postoperative Outcomes after Caesarean section surgery – The MAPOC Study”).

2021 Awarded the 2021 Kevin McCaul Prize for the best research paper or critical review on women’s health by an early career anaesthetist or trainee, Australian Society of Anaesthetists

2023 Runner-up in the “Felicity Reynolds Prize - Best research of the meeting” at Obstetric Anaesthetists Association Annual Scientific Meeting, The Obstetric Anaesthetists Association of United Kingdom

2023 published a per-reviewed international abstract on the work

2020-ongoing A Lim, MBBS / Anesthesiologist, Australia

Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “Rehabilitation after gynaecology surgery”)

2020-ongoing M Kilpin, MBBS / Anesthesiologist, Australia

Career stage: Anesthesiology Registrar *Mentoring role:* Research supervisor (Project title “Intraoperative complications of hypertension in pregnant women”)

2021-ongoing O McMahon, MBBS / Anesthesiologist, UK

Career stage: Anesthesiology Fellow *Mentoring role:* Research supervisor (Project title “Haemoglobin measurement using three different techniques in women undergoing planned vaginal birth”)

2023 Second author of peer-reviewed published abstract in international journal

2023 Second author of poster presented at international meeting, and selected for the “Pick of the Posters” session, Obstetric Anaesthetists Association Meeting. Edinburgh, Scotland

2021-ongoing L Wheat, MBBS / Anesthesiology Fellow, Australia

Career stage: Anesthesiology Registrar *Mentoring role:* Research supervisor (Project title “Audit of epidural analgesia”)

2022-ongoing

A Xin, MBBS, PhD / Anesthesiology Fellow, Australia

Career stage: Anesthesiology Registrar *Mentoring role:* Clinical research and career mentor.

2022 First author of two invited commentaries in Obstetric Anaesthesia Digest
2023 Awarded the 2023 Kevin McCaul Prize for the best research paper or critical review on women’s health by an early career anaesthetist or trainee, Australian Society of Anaesthetists, for a review of airway management in people with preeclampsia.

2023-ongoing

L Ernst MD Duke University US

Career stage: Anesthesiology fellow *Mentoring role:* Research and writing supervisor for review article for Best Practice and Research Clinical Anesthesiology Journal (invited review): Managing Cardiovascular Disease in Pregnant People: Defining the Pregnancy Heart Team

2024-ongoing

D Iyer MBBS / Anesthesiology registrar, Australia

Career stage: Anesthesiology Registrar *Mentoring role:* Clinical research for literature review and case report on ergometrine and coronary vasospasm

2024 Awarded the 2024 Kevin McCaul Prize for the best research paper or critical review on women’s health by an early career anaesthetist or trainee, Australian Society of Anaesthetists, for a review and case report on ergometrine and coronary vasospasm.

2024-2025

L Dahl MBBS / Anesthesiology Fellow, Australia

Career stage: Anesthesiology Fellow *Mentoring role:* Clinical research for scholarly role audit activity: Management of perioperative hypertension in patients with preeclampsia

2024 - ongoing

P Rao / Specialist anaesthetist

Career stage: Specialist anaesthetist. *Mentoring role:* Academic writing and publications and research

Kevin McCaul Prize mentee winners

I have been the mentor and academic supervisor for these anaesthesiology registrar and fellow winners of the National Kevin McCaul Prize in obstetrics and gynaecology anaesthesia.

Awarded by Australian Society of Anaesthetists

- 2016 Dr Patrick Tan
- 2018 Dr Marissa Ferguson
- 2019 Dr Gloria Seah
- 2020 Dr Ezra Keebaugh
- 2021 Dr Mark O'Donnell
- 2023 Dr Annie Xin
- 2024 Dr Divya Iyer

Formal Teaching of Peers:

No presentations below were sponsored by 3rd parties/outside entities

2012-2017	Facilitator and “training-the-trainer” for the PROMPT program PRactical Obstetric Multi-Professional Training (PROMPT)	Multiple workshops Throughout Australia and New Zealand
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Invited Presentations at Brigham and Women’s Hospital, Boston US:

No presentations below were sponsored by 3rd parties/outside entities

2007	Transthoracic Echocardiography / Brigham and Women’s Hospital Grand Rounds, March 28, 2007 Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women’s Hospital
2023	The Physiology of Preeclampsia / Brigham and Women’s Hospital Grand Rounds, October 25, 2023 Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women’s Hospital (during Fulbright Scholarship)

Report of Regional, National and International Invited Teaching and Presentations

No presentations below were sponsored by 3rd parties/outside entities

Regional

2009	Preeclampsia – How, When, Where / invited speaker Mercy Hospital for Women Multidisciplinary Obstetric Critical Care Meeting Melbourne, VIC, Australia
2010	Eclampsia / invited speaker Collaborative Education Seminar Parkville, VIC, Australia
2012	Haemodynamics in healthy pregnant women and in women with preeclampsia / invited speaker The Royal Women’s Hospital Research Seminar Parkville, VIC, Australia
2012	Haemodynamics in pregnancy and preeclampsia / invited speaker Perinatal Society of Australia and New Zealand Victorian Branch Special Symposium Seminar on Preeclampsia Heidelberg, VIC, Australia
2012	Haemodynamics and echocardiography in women with preeclampsia / invited speaker The Northern Hospital, Epping Research Meeting Epping, VIC, Australia
2012	Haemodynamics and echocardiography in pregnancy / invited speaker The Royal Women’s Hospital Gynaecology Meeting Parkville, VIC, Australia

- 2013 Recognizing and responding to clinical deterioration in the childbearing woman / invited speaker
Twilight seminar series Deakin University and Eastern Health
Box Hill, VIC, Australia
- 2014 Pregnancy induced hypertension, preeclampsia and HELLP syndrome / invited speaker
Royal Melbourne Hospital ICU lecture
Melbourne, VIC, Australia
- 2015 The anaesthetists role in the management of pregnant women with complex cardiac disease / invited speaker
Multidisciplinary Meeting Grand Round Royal Melbourne Hospital
Melbourne, VIC, Australia
- 2015 Hypertension and haemodynamics – The Unified Theory of Preeclampsia / invited speaker
St Vincent’s Hospital Anaesthetic Department Meeting
Melbourne, VIC, Australia
- 2015 Translational medicine – Turning research dreams into clinical reality / invited speaker
8th Annual Royal Women’s Hospital Research Meeting
Parkville, VIC, Australia
- 2016 Heart failure in pregnant women / invited speaker
Combined Anaesthetic and Obstetric Learning Meeting
Parkville, VIC, Australia
- 2017 Translational Medicine – turning research dreams into clinical reality / plenary speaker
Western Health Anaesthesia and Critical Care Session Research Week
Sunshine, VIC, Australia
- 2023 Critical illness in pregnant people / invited speaker
Department of Critical Care University of Melbourne Connections Seminar
Melbourne, VIC, Australia
- 2024 The Physiology of Preeclampsia
Keynote speaker, Western Health Anaesthesia and Critical Care Session Research Week
Sunshine, VIC, Australia

National

- 2008 Serial transthoracic echocardiographic studies of cardiac function in healthy term women on the day of their caesarean birth / invited speaker
Society of Obstetric Medicine Australia and New Zealand Annual Scientific Meeting
Adelaide, SA, Australia
- 2008 Preeclampsia – Issues for anaesthetists / invited speaker
Floriade Meeting
Canberra, ACT, Australia

- 2008 Preeclampsia – Issues for anaesthetists / invited speaker
Australian and New Zealand College of Anaesthetists Annual Scientific Meeting
Sydney, NSW, Australia
- 2009 Transthoracic Echocardiography in Peripartum Cardiomyopathy / invited speaker
Combined Regional Committee Meeting Royal Australian and New Zealand College
of Obstetricians and Gynaecologists and The Australian and New Zealand College of
Anaesthetists Critical Care in Obstetrics
Adelaide, SA, Australia
- 2009 Transthoracic echocardiography in obstetric anaesthesia / invited speaker
The Australian and New Zealand College of Anaesthetists Annual Scientific Meeting
Cairns, QLD, Australia
- 2009 Cardiac Function in healthy term pregnant women / invited speaker
Heart Research Institute
Sydney, NSW, Australia
- 2009 Cardiac Function in healthy term pregnant women / invited speaker
University of Western Sydney School of Medicine Research Colloquia
Sydney, NSW, Australia
- 2011 Transthoracic echocardiography in obstetric anaesthesia and obstetric critical illness /
invited speaker
Northern Territory Annual Continuing Medical Education Conference
Darwin, NT, Australia
- 2011 Management of life-threatening events in women with preeclampsia / invited speaker
Northern Territory Annual Continuing Medical Education Conference
Darwin, NT, Australia
- 2011 Preeclampsia and cardiac crises / invited speaker
Australian Society of Anaesthetists National Scientific Congress
Sydney, NSW, Australia
- 2011 Obstetric Emergencies – A guide for the after-hours anaesthetist / invited speaker
Combined Australian and New Zealand College of Anaesthetists and Australian
Society of Anaesthetists Meeting
Orange, NSW, Australia
- 2012 Mitral stenosis in pregnant women / invited speaker
Obstetric Anaesthesia Special Interest Group Meeting
Bunker Bay, WA, Australia
- 2012 Acute pulmonary oedema in pregnant women / invited speaker
Obstetric Anaesthesia Special Interest Group Meeting
Bunker Bay, WA, Australia
- 2012 Ultrasound and the heart – what can we learn? / invited speaker

Australian and New Zealand College of Anaesthetists Annual Scientific Meeting
Perth, WA, Australia

- 2012 Obstetric haemorrhage – the anaesthetist perspective / invited speaker
Transfusion Outcomes Research Collaborative Seminar on Bleeding Clotting and
Transfusion Practice in Obstetrics
Melbourne, VIC, Australia
- 2012 Update on Preeclampsia / invited speaker
Australian Society of Anaesthetists National Scientific Congress
Hobart, TAS, Australia
- 2013 The sympathetic nervous system in women with preeclampsia: The forgotten
biomarkers / invited speaker
Australian and New Zealand College of Anaesthetists Annual Scientific Meeting
Melbourne, VIC, Australia
- 2013 Transthoracic echocardiography in preeclampsia and maternal critical illness / invited
speaker
Australian Society of Anaesthetists National Scientific Meeting
Canberra, ACT, Australia
- 2014 Management of preeclampsia for anaesthetists / invited speaker
Obstetric Anaesthesia Special Interest Group Meeting
Sydney, NSW, Australia
- 2015 Maternal Mortality – an update / invited speaker
The Australian and New Zealand College of Anaesthetists, Annual Scientific Meeting
Adelaide, SA, Australia
- 2016 Preeclampsia and Obstetric Emergencies / invited speaker
The Australian and New Zealand College of Anaesthetists and The Australian Society
of Anaesthetists Continuing Medical Education Meeting
Canberra, ACT, Australia
- 2018 Optimisation of physiology in women with postpartum haemorrhage before coming to
the intensive care unit / invited speaker
Obstetric Intensive Care Symposium
Adelaide, SA, Australia
- 2018 Cardiac output monitoring in obstetric anaesthesia / invited speaker
Obstetric Intensive Care Symposium
Adelaide, SA, Australia
- 2018 Haemodynamics in women with preeclampsia: insights from echocardiography /
invited speaker
Obstetric Intensive Care Symposium
Adelaide, SA, Australia
- 2018 Reducing maternal mortality: Moving from the Millennium Development Goals to the
Sustainable Development Goals / invited speaker
Obstetric Intensive Care Symposium
Adelaide, SA, Australia

- 2018 Maternal mortality – rights and responsibilities – are we there yet? / invited speaker
Obstetric Anaesthesia Special Interest Group Meeting
Sydney, NSW, Australia
- 2018 Preeclampsia and the anaesthetist / invited speaker
Obstetric Anaesthesia Special Interest Group Meeting
Sydney, NSW, Australia
- 2018 Understanding cardiac function and structure in women with preeclampsia / invited speaker
Australian and New Zealand College of Anaesthetists Annual Scientific Meeting
Sydney, NSW, Australia
- 2018 Haemodynamics and preeclampsia – insights from echocardiography / invited speaker
Royal Australian and New Zealand College of Obstetricians and Gynaecologists
Annual Scientific Meeting
Adelaide, SA, Australia
- 2018 Obstetric emergencies for anaesthetists / invited speaker
The Australian Society of Anaesthetists National Scientific Congress
Adelaide, SA, Australia
- 2019 Anaesthesia and analgesia in pregnant women with thrombocytopenia / invited speaker
(given by Dr Nicole Sheridan due to my illness)
Haematology in Obstetrics and Women’s Health (HOW) Collaborative Symposium
Melbourne, VIC, Australia
- 2020 The history of obstetric anaesthesia in Australia / invited speaker, The Pugh Day
Memorial Lecture (canceled due to Coronavirus pandemic)
Launceston General Hospital Historical Society
Launceston, TAS, Australia
- 2020 Critical emergencies in Obstetric Anaesthesia / invited speaker (canceled due to
Coronavirus pandemic)
Melbourne Winter Scientific Meeting, ANZCA/ASA
Melbourne, VIC, Australia
- 2021 Perioperative medicine in pregnant women / Australasian Invited Speaker
Australian and New Zealand College of Anaesthetists / Australian Society of
Anaesthetists Annual Scientific Meeting
Melbourne, VIC, Australia
- 2021 Doctors, Disasters and Destiny / Australasian Invited Speaker Plenary presentation
Australian and New Zealand College of Anaesthetists / Australian Society of
Anaesthetists Annual Scientific Meeting
Melbourne, VIC, Australia
- 2021 Hypertensive Emergencies in Pregnant Women / Australasian Invited Speaker
Australian and New Zealand College of Anaesthetists / Australian Society of
Anaesthetists Annual Scientific Meeting

Melbourne, VIC, Australia

- 2021 Axioms of Obstetric Anaesthesiology / invited speaker
Joint Airway / Perioperative medicine / obstetric anaesthesia Special Interest Group Meeting
- 2021 The history of obstetric anaesthesia in Australia / invited speaker, The Pugh Day Memorial Lecture (presented instead by Dr John Paull due to travel restrictions associated with the Coronavirus pandemic)
Launceston General Hospital Historical Society
Launceston, TAS, Australia
- 2021 The History of Obstetric Anaesthesia in Australia – from pioneering techniques to present day / invited speaker
National Anaesthesia Day October 2021 Australian and New Zealand College of Anaesthetists
Geoffrey Kaye Museum of Anaesthetic History, Melbourne, VIC, Australia
- 2023 The role of echocardiography in people with preeclampsia / invited speaker
Australian and New Zealand College of Anaesthetists Annual Scientific Meeting
Sydney, NSW, Australia
- 2023 Obstetric anaesthesia incidents reported to WebAIRS: Summary of events and case presentations / invited speaker, co-presented with Professor Victoria Eley and Dr Martin Culwick

Obstetric Anaesthesia Special Interest Group Meeting Australian and New Zealand College of Anaesthetists /Australian Society of Anesthetists/New Zealand Society of Anesthetists
Sydney, NSW, Australia
- 2023 Future priorities in obstetric anaesthesia and training / invited speaker
Obstetric Anaesthesia Special Interest Group Meeting Australian and New Zealand College of Anaesthetists /Australian Society of Anesthetists/New Zealand Society of Anesthetists
Sydney, NSW, Australia
- 2024 Collaborations in Obstetric Anaesthesia, Perioperative Medicine and Critical Care
Australian and New Zealand College of Anaesthetists Clinical Trials Network Strategic Workshop (ANZCA CTN)
Sydney, NSW, Australia
- 2025 Symbolism, Sacrifice and Sex (Plenary presentation)
Australasian Invited Speaker
Australian Society of Anaesthetists, National Scientific Congress (ASA NSC)
Canberra, NSW, Australia (October 2025)

Perioperative management of patients with preeclampsia (Obstetric Anaesthesia Special Interest group session presentation)
Australasian Invited Speaker
Australian Society of Anaesthetists, National Scientific Congress (ASA NSC)
Canberra, NSW, Australia (October 2025)

Medicine for the Brave (Plenary presentation)

Australasian Invited Speaker

Australian Society of Anaesthetists, National Scientific Congress (ASA NSC)
Canberra, NSW, Australia (October 2025)

2026 Australasian Invited Speaker (Plenary lecturer)

Australian and New Zealand College of Anaesthetists Annual Scientific Meeting
(May 2026)

International*

2008 The Future of Module 4 / invited presentation

The Obstetric Anaesthesia Special Interest Group Meeting
Blenheim, New Zealand

2010 The Rapid Obstetric Screening Echocardiographic Scan / invited presentation

Australian and New Zealand College of Anaesthetists, Annual Scientific Meeting
Christchurch, New Zealand

2011 New insights into the haemodynamic changes of preeclampsia / invited presentation

Australian and New Zealand College of Anaesthetists, Hong Kong College of
Anesthesiologists Combined Scientific Meeting
Hong Kong, China

2013 Acute pulmonary oedema in women with preeclampsia / plenary speaker

The Anaesthetists Association of Great Britain and Ireland Winter Scientific Meeting
London, UK

2013 Haemodynamics mechanisms for hypertension in women with preeclampsia / plenary
speaker

The Anaesthetists Association of Great Britain and Ireland Winter Scientific Meeting
London, UK

2013 Transthoracic echocardiography in obstetric anaesthesia / international invited
professor

Cape Town, South Africa

2013 Haemodynamics in women with preeclampsia / international invited professor

Cape Town, South Africa

2013 Transthoracic echocardiography in maternal critical illness; Preeclampsia, pulmonary
oedema, haemodynamics and the ROSE scan / plenary speaker

Obstetric Anaesthetists' Association 3 Day Meeting
London, UK

2013 Transthoracic echocardiography in pregnancy: the new religion for the obstetric
anaesthetist? / plenary speaker

Obstetric Anaesthetists' Association 3 Day Meeting
London, UK

2013 Cardiac function in women with preeclampsia / invited speaker

Departement Anästhesie Universitätsspital Basel, Basel, Switzerland
November 2013

- 2014 Peripartum cardiomyopathy / invited speaker
American Society of Anesthesiologists Annual Scientific Meeting
New Orleans, Louisiana, US
- 2015 Unified theory of preeclampsia / invited speaker
RANZCOG/Royal College of Obstetricians and Gynaecologists World Congress
Brisbane, Australia
- 2015 The use of transthoracic echocardiography in obstetric anesthesiology / invited speaker
Leuven, Belgium
- 2015 Preeclampsia for the anesthesiologist: pathophysiology, monitoring and key issues /
invited speaker
Leuven, Belgium
- 2015 Role of non-invasive cardiac output monitoring in pregnancy / invited speaker
Euroanesthesia
Berlin, Germany
- 2015 Obstetric haemorrhage – still a long way to go / plenary speaker
Australian Society of Anaesthetists National Scientific Congress
Darwin, Australia
- 2015 Science, Sex and Society – Why maternal mortality is still a global health issue /
plenary speaker
Australian Society of Anaesthetists National Scientific Congress
Darwin, Australia
- 2015 The Unified Theory of Preeclampsia / plenary speaker
Australian Society of Anaesthetists National Scientific Congress
Darwin, Australia
- 2015 The Unified Theory of Preeclampsia / plenary speaker
Association of Great Britain and Ireland Scientific Congress
Edinburgh, Scotland
- 2015 Science, Sex and Society – Why maternal mortality is still a global health issue /
plenary speaker
Association of Great Britain and Ireland Scientific Congress
Edinburgh, Scotland
- 2016 Obstetric Applications of Echocardiography / invited speaker
Society for Obstetric Anesthesia and Perinatology Annual Scientific Meeting
Boston, MA
- 2019 A cardiovascular research program in pregnant women / invited speaker
Australian and New Zealand College of Anaesthetists Annual Scientific Meeting
Kuala Lumpur, Malaysia

- 2020 Cardiovascular research program in obstetric anaesthesia and critical care / invited speaker
Brigham and Women's Hospital
Boston MA, US – cancelled due to Coronavirus Pandemic
- 2021 Challenges in Perioperative Care in Low and Middle Income Countries / panelist, session chair
World Federation of Societies of Anesthesiologists Panel
American Society of Anesthesiologists Annual Conference
San Diego (online), CA, US
- 2023 Update in Pre-eclampsia / plenary speaker
Obstetric Anaesthetists Association UK, Annual Scientific Meeting
Edinburgh, Scotland UK
- 2024 Preeclampsia
World Federation of Societies of Anesthesiologists, World Congress of Anesthesiology, Singapore
- 2024 Expert Panel Member for Best Case Report Session
Society of Obstetric Anesthesiology and Perinatology (SOAP), Denver, Colorado US

*does not include two presentations at Brigham and Women's Hospital Boston MA, US listed in other section

Report of Clinical Activities and Innovations

Past and Current Licensure and Board Certification:

- 1995-ongoing Australian Medical Board – Australian Health Practitioner Registration Agency (AHPRA)
Registration number MED0001157030 General and Specialist
- 2002-ongoing Board Certified Anesthesiologist Equivalent: Fellow of the Australian and New Zealand College of Anaesthetists
- 2002-ongoing Sub-specialty Obstetric Anesthesiologist
- 1995 - ongoing Medical indemnity Avant Mutual Group Limited ID:13258
Working with children check, Department of Justice, Victoria, Australia, Card number 02069220-03 Expires on 21/01/2025
Nationally Coordinated Criminal History Check Certificate, 5th August 2020, March 2023
Continuing professional development program, Australian and New Zealand College of Anaesthetists program No. 11760 Certificate of Compliance 2023

Practice Activities:

- 2003-2006 Specialist Anaesthetist St Vincent's Hospital
Fitzroy, Victoria
Australia

2003-2010	Specialist Anaesthetist	Mercy Hospital for Women Heidelberg, Victoria Australia
2010-2023	Staff Specialist Anaesthetist, Director of Anaesthetics Research, and inaugural Director of the Anaesthetics Research Centre (2011 – 2023)	Royal Women’s Hospital Parkville, Victoria Australia
2023- ongoing	Specialist Anaesthetist	Joan Kirner Women’s and Children’s Hospital Sunshine, Victoria Australia

Clinical Innovations:

Implementation of transthoracic echocardiography in pregnant people (2008-ongoing)	I was a pioneer of the contemporary use of point-of-care transthoracic echocardiography in pregnant people, especially those with preeclampsia and who are critical unwell. The use of transthoracic echocardiography has led to a deeper understanding of hemodynamics in people with preeclampsia, and a new unified theory of preeclampsia. My work has also led to an increased awareness and the emerging and more widespread use of transthoracic echocardiography in obstetric anesthesiology practice. I am leading Australia’s first obstetric anesthesiology, perioperative medicine, hemodynamic and critical care research program.
High Flow Nasal Oxygen in Pregnancy (2016-ongoing)	I was one of the first obstetric anesthesiologists to highlight the role that high flow nasal oxygen can play in the management of pregnant people undergoing cesarean section surgery and in pregnancy in general. I identified a prospective PhD student and am mentoring and supervising PhD student Dr Patrick Tan to become an expert in this field, in this research program area that is both reviewing the literature and conducting prospective observational and randomized control trials in this area including the first study examining the role of high flow nasal oxygen in patients with hypertension in pregnancy.

Report of Teaching and Education Innovations

Introduced the study of preeclampsia and hemodynamics into the anesthesiology realm (2008-ongoing)	My work has raised awareness of the involvement of anesthesiologists in the management of people with preeclampsia and the importance of obstetric critical care as being an essential part of obstetric anesthesiologist’s training. I was one of the first anesthesiologists to talk at an international meeting about the role anesthesiologists play in the management of preeclampsia and published the first critical review on how transthoracic echocardiography, and fundamental cardiovascular hemodynamics can help in the diagnosis of conditions in critically ill pregnant people. As a consequence of my work and advocacy it is now routine that there be a preeclampsia and/or obstetric
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critical care/obstetric critical illness session at most international anesthesiology meetings.

Transthoracic echocardiography in obstetric anaesthesia workshop development (2011-ongoing)	Following my world-first implementation of transthoracic echocardiography for use in pregnant people, I developed a workshop to provide hands on teaching of the technique. I developed a concise scanning technique specifically for use in obstetric patients called the Rapid Obstetric Screening Echocardiography (or “ROSE”) scan. This abbreviated scan has been taught in a variety of settings and has been published internationally.
Advocacy for both anesthesiologists and their patients (2014-onwards)	I have given permission for anesthesiologists to speak freely about maternal mortality, addressing disparities, inequity, and global health issues, rather than only staying in the lane of anesthesia and analgesia for childbirth. Since 2014 I have given regular presentations internationally, and written editorials and reviews (see Scholarship section) that challenge the status quo, our thinking about language in pregnancy, marginalization of pregnant people and global health issues that can be addressed with the engagement of obstetric anesthesiologists.
Development of the first transthoracic echocardiography module in pregnant people (2014)	I developed the first module for the teaching of transthoracic echocardiography in preeclampsia and healthy pregnant women, as a part of the Masters in Clinical Ultrasound postgraduate program, University of Melbourne, Parkville, Australia. I developed this aspect of the curriculum which is still in use today for all students enrolled in the postgraduate program.
Development of the first global Obstetric Perioperative Medicine course (2019-ongoing)	I have developed the first ever Obstetric Perioperative Medicine course, initially as a short course at Monash University, Melbourne Australia, and then as an expanded course at University College London, Royal College of Anaesthetists, UK. This international roll-out of obstetric perioperative medicine training is increasing awareness of the importance of pregnant people as a surgical population where outcomes after surgery must be measured and optimized.

Report of Education of Patients and Service to the Community

No presentations below were sponsored by 3rd parties/outside entities

Activities

2012	Cosmo Pregnancy Magazine, Australia Interview - Epidural analgesia
2012	Nursing Today Magazine, Australia Interview - The ROSE Scan
2012	Herald Sun Newspaper, Melbourne Australia Interview - The ROSE Scan
2013	Hearts for Hartley Charity Dinner, Royal Women’s Hospital Presentation

- 2013 Fintona Girls School, Melbourne Australia
Guest speaker – “My journey as a doctor”, Year 6 provocation evening
- 2013 Women on Boards Corporate Program
Volunteer
- 2014 Media Hub, UK
Interview – Unified Theory of Preeclampsia
- 2016 ABC Radio Australia
Interview with Jon Faine – Royal Women’s Hospital 160 Years
- 2016 ABC Radio Australia
Interview with Claire Bowditch – National Anaesthesia Day 170 years celebration
- 2018-ongoing Collaboration with novelist Vanessa Carnovale
Content expert – “My life for yours” ISBN 978-1-83888-653-0
- 2019 University of the Third Age, Australia
Lecturer, Medical Seminar Series – “Science Sex and Society – why maternal mortality is still a global health issue”
- 2020 3RRR Radio, Melbourne Australia
Interview – Personal Protective Equipment and Healthcare worker safety (COVID-19), August 9, 2020
- 2020 ABC News Radio, Australia
Interview – COVID-19 infections among healthcare workers, 25 August 2020
- 2020 ABC News Radio, Australia
Online interview – Australian doctors, nurses and aged care workers tell us how they're dealing with COVID-19, 14 October 2020

Educational Material for Medical community, Patients and the Lay Community:

Books, articles, and presentations in other media

- | | | | |
|------|--|-------------------|--|
| 2014 | The Unified Theory of Preeclampsia | Author of article | Essential Baby Magazine, Melbourne Australia |
| 2014 | The Unified Theory of Preeclampsia | Author of article | Herald Sun Newspaper, Melbourne Australia |
| 2015 | Maternal Mortality | Author of article | The Age/Sydney Morning Herald Newspaper, Australia |
| 2016 | Explainer: what is an epidural for labour? | Author of article | The Conversation (online research and science publication) |

<http://theconversation.com/explainer-what-is-an-epidural-for-labour-64870>

2017	Opinion piece: Preeclampsia	Author of article	International Society Study Hypertension in Pregnancy Newsletter
2017	The new rejuvenated Public Practice Advisory Committee of the Australian Society of Anaesthetists	Author of article	Australian Anaesthetist Magazine
2018	Australian Government's Medical Benefits Schedule Review	Author of article	Australian Anaesthetist Magazine
2019	Reclaiming the word "surgery" in obstetrics	Author of article	O&G Magazine, Royal Australian and New Zealand College of Obstetricians and Gynaecologists
2020	Time for new approach to caesarean births	Author of article	ANZCA Bulletin Volume 28 Issue 3, Australian and New Zealand College of Anaesthetists
2020	PPE Unmasked – why healthcare workers are inadequately protected	Co-author of article	The Conversation (online research and science publication) https://theconversation.com/ppe-unmasked-why-health-care-workers-in-australia-are-inadequately-protected-against-coronavirus-143751
2020	Here's the proof. Many more health workers than we ever thought are catching COVID-19 on the job	Author of article	The Conversation (online research and science publication) https://theconversation.com/heres-the-proof-we-need-many-more-health-workers-than-we-ever-thought-are-catching-covid-19-on-the-job-145092
2020	Rethinking safe childbirth in COVID-19 positive women	Author of article	Medium Dot Com https://medium.com/@dratdennis/rethinking-safe-childbirth-in-covid-19-positive-women-653dc2b27ddb
2020	Confidential document reveals healthcare outbreaks	Interviewed by journalist Osman Faruqi for expert opinion for his new article	The Saturday Paper, Melbourne Australia https://www.thesaturdaypaper.com.au/news/politics/2020/09/19/confidential-document-reveals-healthcare-outbreaks/160043760010434#hrd

2020	'Assume it's everywhere': aerosol fears underpin fight against COVID healthcare infections	Referred to in article	newsGP magazine, Royal Australian College of General Practitioners https://www1.racgp.org.au/news/gp/clinical/assume-it-s-everywhere-aerosol-fears-underpin-fight
2022	How do epidurals work and why is there a global shortage of them?	Author of article	The Conversation (online research and science publication) https://theconversation.com/how-do-epidurals-work-and-why-is-there-a-global-shortage-of-them-187640
2024	The Research Dream	Author of Article	Australian Anaesthetist Magazine (Australian Society of Anaesthetists)

Report of Scholarship

Key metrics: Citation count 4218; h-index 24; i10-index 52 (source: Google Scholar [Professor Alicia Dennis - Google Scholar](#))

** indicates first author is my mentee; Underlined = presenter other than Dennis

Peer-Reviewed Scholarship in print or other media:

Research Investigations

1. Simmons SW, Cyna AM, **Dennis AT**, Hughes D. Combined spinal-epidural versus epidural analgesia in labour. Cochrane Database of Systematic Reviews 2007, Issue 3. Art. No.: CD003401. DOI: 10.1002/14651858.CD003401.pub2
2. Simmons SW, Crowhurst JA, Cyna AM, **Dennis AT**. Combined spinal-epidural versus spinal anaesthesia for caesarean section (Protocol). Cochrane Database of Systematic Reviews 2009, Issue 4. Art. No.: CD008100. DOI: 10.1002/14651858.CD008100
3. **Dennis AT**, Arhangelschi I, Simmons SW, Royse CF. Prospective observational study of serial cardiac output by transthoracic echocardiography in healthy pregnant women undergoing elective caesarean delivery. International Journal of Obstetric Anaesthesia 2010;19:142-8
4. Simmons SW, Taghizadeh N, **Dennis AT**, Hughes D, Cyna AM. Combined spinal-epidural versus epidural analgesia in labour. Cochrane Database of Systematic Reviews 2012, Issue 10. Art. No.: CD003401. DOI: 10.1002/14651858.CD003401.pub3
5. **Dennis AT**, Castro JM, Heffernan S, Hennessy A. Haemodynamics in healthy pregnant and non-pregnant baboons. Journal of Medical Primatology 2012;41(2):122-129.
6. **McCarthy T, Telac N, **Dennis AT**, Griffiths G, Buettner A. Ability of non-invasive intermittent blood pressure monitoring and a continuous non-invasive arterial pressure monitor (CNAP™) to provide new readings in each 1-min interval during elective caesarean section under spinal anaesthesia. Anaesthesia 2012;67(3):274-279.
7. **Dennis AT**, Castro JM, Ong M, Carr C. Haemodynamics in obese pregnant women. International Journal of Obstetric Anaesthesia 2012;21:129-134.
8. **Dennis AT**, Castro J, Simmons SW, Carr C, Permezel M, Royse CF. Haemodynamics in women with untreated preeclampsia. Anaesthesia 2012;67(10):1105-1118.

9. **Dennis AT**, Castro, JM. Transthoracic echocardiography in women with treated severe pre-eclampsia. *Anaesthesia* 2014;69(5):436-444.
10. **Dennis AT**, Dyer RA, Gibbs M, Nel L, Castro J, Swanevelder J. Haemodynamics using transthoracic echocardiography in severe pre-eclampsia and HIV in South Africa. *Anaesthesia* 2015;70(9):1028-1038.
11. **Dennis AT**, Chambers E, Sarang K. Blood pressure assessment and first line pharmacological agents in women with eclampsia. *International Journal of Obstetric Anesthesia* 2015;24:247-251.
12. **Kane S, **Dennis AT**. Doppler assessment of uterine blood flow in pre-eclampsia: a review. *Hypertension in pregnancy* 2015;34(4):400-421. DOI: 10.3109/10641955.2015.1074244
13. Myles PS, Myles DB, Galagher W, Boyd D, Chew C, MacDonald N, **Dennis AT**. Minimal Clinically Important Difference for Three Quality of Recovery Scales. *Anesthesiology* 2016; 125(1):39-45.
14. **Dennis AT**, Mulligan S. Analgesic requirements and pain experience after caesarean section under neuraxial anaesthesia in women with preeclampsia. *Hypertension in Pregnancy* 2016; 35(4):520-528.
15. **Dennis AT**, Hardy L. Defining a reference range for vital signs in healthy term pregnant women. *Anaesthesia and Intensive Care* 2016;44(6):752-757.
16. **Tan PCF, **Dennis AT**. High flow humidified nasal pre-oxygenation in pregnant women. *Anaesthesia* 2016;71:847-848.
17. Myles PS, Myles DB, Galagher W, Boyd D, Chew C, MacDonald N, **Dennis AT**. Measuring acute postoperative pain using the visual analog scale: the minimal clinically important difference and patient acceptable symptom state. *Br J Anaesth* 2017;118(3):424-429.
18. **Dennis AT**, Lamb KE, Story D, Tew M, Dalziel K, Clarke P, Lew J, Parker A, Hessian E, Teale G, Simmons S, Casalaz D. Associations between maternal size and health outcomes for women undergoing caesarean section: a multicentre prospective observational study (The MUM SIZE Study). *BMJ Open* 2017;7:e015630. DOI:10.1136/bmjopen-2016-015630
19. **Warren M, Kamania J, **Dennis AT**. Immediate birth – an analysis of women undergoing time critical birth in a tertiary referral obstetric hospital. *International Journal of Obstetric Anesthesia* 2018;33:46-52.
20. **Dennis AT**, Buckley A, Mahendrayogam T, Castro JM, Leeton L. Echocardiographic determination of resting haemodynamics and optimal positioning in term pregnant women. *Anaesthesia* 2018;74(11):1345-1352.
21. **Dennis AT**, Warren M. M.H. Immediate birth - an analysis of women and their babies undergoing time critical birth in a tertiary referral obstetric hospital. *International Journal of Obstetric Anesthesia* 2018;35:111-112.
22. Blank D, Kamlin O, Jacobs S, Thio M, Dawson J, Nyland K, Kane S, **Dennis AT**, Polglase G, Hooper S, Davis P. The Baby-Directed Umbilical Cord Clamping Feasibility Study: The Baby-DUCC Study. *Resuscitation* 2018;131:1-7
23. **Chen SSM, Leeton L. Castro JM. **Dennis AT**. Myocardial tissue characterisation and detection of myocardial oedema by cardiovascular magnetic resonance in women with pre-eclampsia: a pilot study. *International Journal of Obstetric Anesthesia* 2018;36:56-65.

24. **Dennis AT**, Hardy L, Leeton L. The prone position in healthy pregnant women and in women with preeclampsia - a pilot study. *BMC Pregnancy and childbirth* 2018; 18:445. DOI: 10.1186/s12884-018-2073-x
25. **Dennis AT**, Salman M, Paxton E, Flint M, Leeton L, Roodt F, Yentis S, Dyer RA. Resting hemodynamics and response to exercise using the Six Minute Walk Test in late pregnancy: an international prospective multicentre study. *Anesthesia Analgesia* 2019;129:450-457.
26. **Tan PCF, Millay O, Leeton L, **Dennis AT**. High flow humidified nasal pre-oxygenation in pregnant women: a prospective observational study. *British Journal of Anaesthesia* 2019; 122(1):86-91.
27. **Kane S, **Dennis AT**, da Silva Costa F, Korman L, Cade T, Brennecke A. Ophthalmic sonography in healthy pregnant women: an Australian cohort study. *Journal of Clinical Ultrasound* 2019;1-9. DOI: 10.1002/jcu.22735
28. Simmons SW, **Dennis AT**, Cyna AM, Richardson MG, Bright MR Combined spinal-epidural versus spinal anaesthesia for caesarean section. *Cochrane Database of Systematic Reviews* 2019, Issue 10. Art. No.: CD008100. DOI: 10.1002/14651858.CD008100.pub2
29. Smith B, **Dennis AT**, Davies K, Cramp P, Gregory K, Sturgess D: The use of transthoracic echocardiography in caesarean section surgical patients in the Intensive Care Unit: a retrospective cohort study. *Australian and New Zealand Journal of Obstetrics and Gynaecology* 2022;62(1):155-159.
30. **Dennis, AT**, Ferguson M, Jackson, S. The prevalence of perioperative iron deficiency anaemia in women undergoing caesarean section—a retrospective cohort study. *Periop Med* 2022;11:36. DOI:10.1186/s13741-022-00268-x
31. Eley VA, Culwick MD, **Dennis AT**. Analysis of anaesthesia incidents during caesarean section reported to webAIRS between 2009 and 2022. *Anaesth Intensive Care*. 2023 Nov;51(6):391-399. doi: 10.1177/0310057X231196915. Epub 2023 Sep 22. PMID: 37737092
32. **Unal BS, **Dennis AT**. Perioperative complications in patients with preeclampsia undergoing caesarean section surgery. *Journal of Clinical Medicine* 2023; 12(22): 7050 <https://doi.org/10.3390/jcm12227050>
33. ** Caulfield, K.C., McMahon, O. and Dennis, A.T. (2024), Baseline haemoglobin variability by measurement technique in pregnant people on the day of childbirth. *Anaesthesia* 2024; 79: 178-185. <https://doi.org/10.1111/anae.16174>
34. ** Tan PCF, Dennis AT. Optiflow Switch™: a clinical evaluation case series in general anaesthesia for Caesarean delivery. *Br J Anaesth*. 2024 Jan;132(1):207-209. doi: 10.1016/j.bja.2023.10.029. Epub 2023 Nov 21. PMID: 37989686.
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39. **O'Donnell M, **Dennis AT**. Maternal anaemia and postoperative outcomes after caesarean section surgery – The MAPOC Study (Feasibility study). *Anaesthesia and Intensive Care* 2025;53(2):92-102 <https://doi.org/10.1177/0310057X241275127>

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1. **Dennis AT**. Transthoracic echocardiography in obstetric anaesthesia and obstetric critical illness. *International Journal of Obstetric Anesthesia* 2011;20:160-168
2. **Dennis AT**, Solnordal CB. Acute pulmonary oedema in pregnant women. *Anaesthesia* 2012;67(6):646-659.
3. **Dennis AT**. Management of Pre-eclampsia – Issues for anaesthetists. *Anaesthesia* 2012;67(9):1009-1020.
4. **Kane SC, **Dennis AT**, Da Silva Costa F, Kornman L, Brennecke S. Contemporary clinical management of the cerebral complications of preeclampsia. *Obstetrics and Gynecology International* 2013; DOI:10.1155/2013/985606
5. **Dennis AT**, Castro JM. Echocardiographic differences between pre-eclampsia and peripartum cardiomyopathy. *International Journal of Obstetric Anesthesia* 2014;23(3):260-266.
6. **Dennis AT**. Focused Review: Heart failure in pregnant women - is it peripartum cardiomyopathy? *Anesthesia and Analgesia* 2015;120(3):638-643.
7. **Dennis AT**. Transthoracic echocardiography in women with preeclampsia. *Current opinion in anesthesiology* 2015;28(3):254-260.
8. Moroney E, Posma E, **Dennis AT**, d'Udekem Y, Cordina R, Zentner D. Pregnancy in the Woman with a Fontan circulation: a review. *Obstetric Medicine* 2018;11(1):6-11.
9. **Tan P, **Dennis AT**. High flow humidified nasal oxygenation in pregnant women. *Anaesthesia and Intensive Care* 2018;46:36-41.
10. **Dennis AT**. Reducing Maternal Mortality in Papua New Guinea: Contextualizing Access to Safe Surgery and Anesthesia. *Anesthesia Analgesia* 2018;126:252-259.
11. **Griffiths S, Waight G, **Dennis AT**. Focused transthoracic echocardiography in obstetrics. *BJA Education* 2018 18(9): 271-276. DOI: 10.1016/j.bjae.2018.06.001
12. **Ferguson M, **Dennis AT**. Defining peri-operative anaemia in pregnant women – challenging the status quo. *Anaesthesia* 2019;74(2):237-245.

13. Padilla C, Ortner C, **Dennis AT**, Zieleskiewicz L. The need for maternal critical care education, point-of-care ultrasound (PoCUS) and critical care echocardiography in obstetric anesthesiologists training. *International Journal of Obstetric Anesthesia* 2023 e-pub 2023/04/03. <https://doi.org/10.1016/j.ijoa.2023.103880>
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15. **Ernst L, Meng m, Quist-Nelson J, Zentner D, **Dennis AT**. Managing cardiovascular disease in pregnant people: Defining the Pregnancy Heart Team. *Best Practice and Research Clinical Anesthesiology*. 2024 Sep;38(3):278-292 <https://doi.org/10.1016/j.bpa.2024.10.001>
16. **Dennis AT**, **Xin A, Farber M. Perioperative management of patients with preeclampsia. *Anesthesiology* 2025 Feb 1;142(2):378-402. doi: 10.1097/ALN.0000000000005296
17. **Rao P, **Dennis AT**. Translational Simulation in Obstetric Anaesthesia: Foundations, Evidence and Applications - A Narrative Review. *British Journal of Anaesthesia* 2026 in press. Accepted 8 January 2026

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1. **Dennis AT**. Managing the pregnant woman with cardiac disease. In: Sia A, Chan YK, Gatt S. editors. *Obstetric anaesthesia and analgesia – Practical Issues*. Singhealth Academy, Singapore. ISBN 978-981-07-1475-8; 2012. p. 222-235.
2. **Dennis AT**. Goal directed transthoracic echocardiography – A translational education program. In: Riley R, editor. *Australasian Anaesthesia* 2015. Australian and New Zealand College of Anaesthetists, ISBN 978-0-9873236-5-1; 2015. p. 85-91.
3. **Dennis AT**. The role of transthoracic echocardiography in hypertensive disorders of pregnancy. In: Tauqeer Husain, Roshan Fernando and Scott Segal, editors. *Obstetric Anesthesiology: An Illustrated Case-Based Approach*. Cambridge University Press University Printing House, Cambridge CB2 8BS, United Kingdom ISBN 978-1-107-09564-9; 2019. p. 114-119.

Editorials:

1. **Dennis AT**. Commentary on *Li YH, Novikova N. Pulmonary artery flow catheters for directing management in pre-eclampsia*. *Cochrane Database of Systematic Reviews* 2012, Issue 6. Art. No.: CD008882. DOI: 10.1002/14651858.CD008882.pub2. 2012 Oct 2
2. **Dennis AT**. Commentary on *Flash pulmonary edema during cesarean section in a woman with preeclampsia*. *Pregnancy Hypertension* 2013;3(3):196-197.
3. **Dennis AT** Commentary on *Reversal of peripheral nerve injury-induced hypersensitivity in the postpartum period: role of spinal oxytocin*. *Obstetric Anesthesia Digest* 2013;33(4):181-182.
4. **Dennis AT** Commentary on *Association between fibrinogen level and severity of postpartum haemorrhage: secondary analysis of a prospective trial*. *Obstetric Anesthesia Digest* 2013;33(2):99-100.

5. **Dennis AT.** The bench is the bedside – the role of transthoracic echocardiography in translating pregnancy research into clinical practice. *Anaesthesia* 2013;68(12):1207-1209.
6. **Dennis AT, Dyer RA.** Cardiac output monitoring in obstetric anaesthesia. *International Journal of Obstetric Anesthesia* 2014;23:1-3.
7. **Dennis AT, Castro JM.** Haemodynamics and hypertension in pregnant women – is a unified theory of pre-eclampsia possible? *Anaesthesia* 2014;69(11):1183-1189.
8. **Dennis AT** Commentary on *Utility of B-type natriuretic peptides in preeclampsia: A systematic review.* *Obstetric Anesthesia Digest* 2014;34(2):72-74.
9. **Dennis AT.** Commentary on *Expectant management of severe preeclampsia remote from term: the MEXPRES Latin Study, a randomized, multicenter clinical trial,* *Obstetric Anesthesia Digest* 2014;34(4):229-230.
10. **Dennis AT** Commentary on *Cardiac arrest during hospitalization for delivery in the United States, 1998-2011,* *Obstetric Anesthesia Digest* 2015;35(2):75-77.
11. **Dennis AT.** Valvular heart disease in pregnancy. *International Journal of Obstetric Anesthesia* 2016;25(1):4-8.
12. **Dennis AT.** Science, Sex and Society - Why maternal mortality is still a global health issue. [Anaesthesia](#) 2016; 71(9):1003-1007.
13. **Dennis AT** Commentary on *Hypertensive Disorders and Pregnancy-Related Stroke: Frequency, Trends, Risk Factors, and Outcomes.* *Obstetric Anesthesia Digest* 2015;35(4):188-189.
14. **Dennis AT** Commentary on *Is cell salvaged vaginal blood loss suitable for re-infusion?* *Obstetric Anesthesia Digest* 2016;36(2):58-59.
15. **Dennis AT** Commentary on *Caesarean section rates and maternal and neonatal mortality.* *Obstetric Anesthesia Digest* 2016;36(4):171-172.
16. **Dennis AT.** Severe maternal morbidity with severe hypertension. *Obstetric Anesthesia Digest* 2017;37(2):82-83.
17. **Dennis AT** Commentary on *Development and validation of risk prediction model for venous thromboembolism in postpartum women: multinational cohort study.* *Obstetric Anesthesia Digest* 2017;37(4):205-206.
18. **Dennis AT** Commentary on *Maternal Pulse Pressure and the Risk of Postepidural Complications: A Randomized Controlled Trial.* *Obstetric Anesthesia Digest* 2018;38(2):58-59.
19. **Dennis AT** Commentary on *Maternal cardiac output response to colloid preload and vasopressor therapy during spinal anaesthesia for caesarean section in patients with severe pre-eclampsia: a randomised, controlled trial.* *Obstetric Anesthesia Digest* 2018;38(4):172-173.
20. **Dennis AT, Sheridan N.** Sex, suffering and silence – why peri-operative medicine must prioritise pregnant women *Anaesthesia* 2019;74:1504-1508. DOI: 10.1111/anae.14702
21. **Dennis AT** Commentary on *Nyfløt LT, Ellingsen L, Yli BM, Øian P, Vangen S. Maternal deaths from hypertensive disorders: lessons learnt Acta Obstet Gynecol Scand 2018; 97:976–87.* *Obstetric Anesthesia Digest* 2019;39(2):60-61.

22. **Keebaugh E, **Dennis AT** Commentary on *Romano, D.N.; Hyman, J.; Katz, D. et al. Retrospective Analysis of Obstetric Intensive Care Unit Admissions Reveals Differences in Etiology for Admission Based on Mode of Conception. Obstetric Anesthesia Digest. 2020;40(3):146-147.*
23. **Dennis AT** Commentary on *Zhong, Q.; Liu, Y.Y.; Lou, Q.; More Spinal Anesthesia for Patients With Coronavirus Disease 2019 and Possible Transmission Rates in Anesthetists: Retrospective, Single-centre, Observational Cohort Study. Obstetric Anesthesia Digest. 2021; 41(1):28-29.*
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25. **Xin A, **Dennis AT** Commentary on *Simard C, Yang S, Koolian M, Shear R, Rudski L, Lipes J. The rose of echocardiograph in amniotic fluid embolism: a case series and review of the literature. Can J Anesth 2021;68:1541-1548. Obstetric Anesthesia Digest 2022;42(3):157-158.*
26. **Xin A, **Dennis AT** Commentary on *Tan, H. Sen et al. Quality of Labor Analgesia with Dural Puncture Epidural versus Standard Epidural Technique in Obese Parturients: A Double-blind Randomized Controlled Study. Anesthesiology 2022;136:678–687. Obstetric Anesthesia Digest 2022;43(1):37-38.*
27. **Dennis AT.** Commentary on *Racial and ethnic disparities in obstetric anesthesia: a scoping review. Lee W, Martins MS, George RB, Fernandez A. Can J Anesthesia 2023; 70:1035-1046 Obstetric Anesthesia Digest 2024;44(1):6-7.*
28. **Dennis AT.** Commentary on *The future of disparities research in obstetric anesthesia. McCullough D. Can J Anesth 2023; 70:936-941 Obstetric Anesthesia Digest 2024;44(1):7-9*
29. **Dennis AT,** Sheridan N. Extreme inequity in analgesia and peri-operative management of pregnant patients. *Anaesthesia. 2024 May;79(5):455-460.*
30. **Dennis AT.** Commentary on *Jin S, Munro A, George RB. The association between labour epidural analgesia and postpartum depression in primiparous patients: a historical cohort study. Can J Anaesth 2023;70:1909-16. Obstetric Anesthesia Digest 2024;44(3):166-168.*
31. **Dennis AT.** Commentary on *Ortner CM, Sheikh M, Athar MW, Padilla C, Guo N, Carvalho B. Feasibility of Focused Cardiac Ultrasound Performed by Trainees During Cesarean Delivery. Anesth Analg 2024;139:332-8. Obstetric Anesthesia Digest 2025;45(1):18-19*
32. **Sinh V, **Dennis AT.** Commentary on *Levett KM, Sutcliffe KL, Vanderlaan J, Kjerulff KH. The first baby study: what women would like to have known about first childbirth. A mixed-methods study. Birth 2024;51:795-805. Obstetric Anesthesia Digest 2025;45(3):156-158*
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Case Reports:

1. **Lai CF, Dennis AT, Graham J. High output cardiac failure in a woman with hereditary haemorrhagic telangiectasia. *Anaesthesia Intensive Care* 2010;38(2):381-6
2. **Dennis AT**, Stenson A. The use of transthoracic echocardiography in postpartum hypotension. *Anesthesia and Analgesia* 2012;115:1033-1037
3. **Dennis AT**, Gerstman G. Management of labour and birth in a woman with refractory supraventricular tachycardia. *International Journal of Obstetric Anesthesia* 2014;23:80-85.
4. **Ozcan J, Balson I, **Dennis AT**. New diagnosis myasthenia gravis and preeclampsia in late pregnancy. *BMJ Case Reports* 2015 DOI:10.1136/bcr-2014-208323

Letters to the Editor/Correspondence

1. **Dennis AT**, Duley L, Henderson-Smart DJ. Magnesium sulphate versus diazepam for eclampsia. *Cochrane Database of Systematic Reviews* 2003, Issue 4. Art. No.: CD000127. DOI: 10.1002/14651858.CD000127. 12 May 2008
2. **Dennis AT**. The anaesthetist is a vital member of the team. *Obstetric Medicine* 2009;2(1):44
3. **Dennis AT**, Walker S, Crowhurst J, Drinkwater P. Intravenous labetalol is available in Australia. *Anaesthesia Intensive Care* 2010;38(2):397
4. **Miles L, **Dennis AT**. Time to restock the doctor's bag. *Australian Prescriber* 2012;35(6):7-9. DOI: 10.18773/austprescr.2012.081
5. **Dennis AT**. Labetalol for hypertensive pulmonary oedema in pregnancy. *Anaesthesia* 2012;67(10):1172-73.
6. **Dennis AT**, Griffiths J. Tranexamic acid for post-partum haemorrhage in the WOMAN trial. *Lancet* 2017;380:1582.
7. **Dennis AT**. The use of remdesivir in adults with severe COVID-19. *Remdesivir and COVID-19 Lancet*. Oct 3, 2020. DOI: 10.1016/S0140-6736(20)32022-5
8. **Tan PCF, **Dennis AT**. Pre-oxygenation using high flow nasal oxygen or face mask oxygen in pregnant people – a prospective randomised controlled crossover non-inferiority study (The HINOP2 study) *International journal of obstetric anesthesia* 2024;62:104333
9. **Dennis AT**, **Xin A, Farber M. Perioperative management of patients with preeclampsia. *Anesthesiology* 2025;143(3):790-793

Professional educational materials or reports, in print or other media:

2014. Curriculum developer for transthoracic echocardiography in preeclampsia and healthy pregnant women, Masters in Clinical Ultrasound postgraduate program, University of Melbourne, Parkville, Australia. I developed this aspect of the curriculum which is still in use today for all students enrolled in the postgraduate program. See link: -

[Transthoracic echocardiography - TTE in Pregnant Women \(unimelb.edu.au\)](http://unimelb.edu.au)

Thesis:

1. **Dennis AT.** 2010. Cardiac function in women with preeclampsia. PhD thesis, Department of Pharmacology, Faculty of Medicine, Dentistry and Health Sciences, The University of Melbourne. <https://minerva-access.unimelb.edu.au/bitstreams/fffdfeea-4d6e-5ae1-966b-ec650b7fb772/download>
3,360 downloads, 1,409 views
Commenced December 2007, Completed September 2010

Abstracts, Poster Presentations, and Exhibits Presented at Professional Meetings (prize winning work, or last four years only):

1. **Dennis, AT.** “Defining a new normal – Challenging our understanding of the cardiovascular system in pregnancy”. Australian Society of Anaesthetists National Scientific Congress, Wellington, New Zealand, September 2008 (presented in Gilbert Troup Prize Session and Winner of Gilbert Troup Prize)
2. **Dennis, AT.** “Left ventricular systolic and diastolic function and structure in women with untreated preeclampsia”. The Obstetric Anaesthetists Association Annual Scientific Meeting, Newcastle, UK, May 2010 (winner of both the Best Research of Meeting and Best Presentation of Meeting awards)
3. **Dennis, AT.** “Left ventricular systolic and diastolic function and structure in women with untreated preeclampsia”. International Society for the Study of Hypertension in Pregnancy Meeting, Melbourne, Australia, October 2010 (winner of both the Best Research of Meeting and Best Presentation of Meeting awards)
4. **Dennis, AT.** “The effect of passive leg raising on haemodynamics in healthy term pregnant women”. Australian Society of Anaesthetists National Scientific Congress, Hobart, Australia, September 2012 (presented in Best Poster Prize Session)
5. **Dennis, AT.** “Cardiac function in women with severe preeclampsia”. Australian Society of Anaesthetists National Scientific Congress, Hobart, Australia, September 2012 (presented in Gilbert Troup Prize Session)
6. **Dennis, AT.** “Haemodynamics in pregnant women with morbid obesity”. Australian Society of Anaesthetists National Scientific Congress, Hobart, Australia, September 2012 (presented in Gilbert Troup Prize Session and Winner of Gilbert Troup Prize)
7. ****Gibbs M, Dennis AT.** “Cardiac function and structure using transthoracic echocardiography in term HIV positive women”. The Obstetric Anaesthetists Association of United Kingdom, Dublin, Ireland (Winner of Best Student Presentation Award)
8. ****Pears S, Sunderland N, Dennis AT, Makris A.** Acute blood pressure response to antihypertensives during anaesthesia in an experimental model of preeclampsia. High Blood Pressure Research Council of Australia Meeting, Melbourne, Australia, 2015 (winner of Best Student Poster award)
9. **Dennis, AT.** “Quantification of haemodynamics and myocardial tissue characteristics in healthy pregnant women and women with pre-eclampsia using cardiac magnetic resonance”. The Obstetric Anaesthetists Association UK Annual Scientific Meeting, Manchester, UK, May 2016 (presented in Felicity Reynolds Prize session – top 10 (top 3%) of abstracts at the meeting)
10. **Dennis, AT.** “Assessment of exercise capacity and oxygen utilization and the prediction of preeclampsia in women in early pregnancy using the Six Minute Walk Test”. Obstetric Anaesthesia Special Interest Group meeting, Australian and New Zealand College of

Anaesthetists, Australian Society of Anaesthetists, New Zealand Society of Anaesthetists Annual Scientific Meeting, Sydney, Australia, May 2018 (presented in Michael Paech Prize Session)

11. **Tan PCF, Millay OJ, **Dennis AT**. High flow humidified nasal pre-oxygenation in pregnant women – The HINOP1 Study International Journal of Obstetric Anesthesia 2018; 35;(S1):O.5:S9 (winner of the Felicity Reynolds Prize session – best presentation and abstracts at the meeting (>300 papers))
12. **Dennis, AT**. “Assessment of exercise capacity and oxygen utilization and the prediction of preeclampsia in women in early pregnancy using the Six Minute Walk Test”. Obstetric Anaesthetists’ Association Meeting, Belfast, Northern Ireland, May 2018 (presented in Felicity Reynolds Prize session – top 10 (top 3%) of abstracts at the meeting)
13. **Spicer M, **Dennis AT**. The Six Minute Walk test in healthy nulliparous young women. Royal Australasian College of Obstetricians and Gynaecologists Annual Scientific Meeting, Melbourne 2019
14. **Tan PCF, Peyton PJ, Unterscheider J, Deane A, Leeton L, **Dennis AT**. High-flow humidified nasal oxygen versus facemask oxygen for preoxygenation of pregnant women: A prospective randomised controlled crossover study. International Journal of Obstetric Anesthesia 2021;46;(S1) Article 102991-102991(also presented in Felicity Reynolds Prize session – winner, best of > 300 abstracts)
15. **Dennis, AT**. “Oxygen utilization and anaerobic threshold measured using cardiopulmonary exercise testing in healthy pregnant women.” Obstetric Anaesthetists Association Meeting Edinburgh May 2023 (presented in the Felicity Reynolds Prize session – top 10 (top 3%) of abstracts at the meeting)
16. **O’Donnell M, **Dennis AT**. Maternal anaemia and postoperative outcomes after caesarean section surgery. The MAPOC Study. International Journal of Obstetric Anesthesia 2023;54:Supplement 1. Article 103662 O10
17. **Traer E, Ismail H, Leeton L, Bernhard R, **Dennis AT**. Oxygen utilisation and anaerobic threshold measured using cardiopulmonary exercise testing in healthy pregnant women. International Journal of Obstetric Anesthesia 2023;54:Supplement 1. Article 103659 O7
18. **Unal BS, **Dennis AT**. Perioperative outcomes in surgical patients with preeclampsia. High Risk Pregnancy session at Obstetric Anaesthetists Association Meeting. Edinburgh, Scotland, May 2023
19. **Zhang K, **Dennis AT**. The use of lumbar epidural analgesia for people having vaginal twin births. Labour Analgesia session at Obstetric Anaesthetists Association Meeting. Edinburgh, Scotland, May 2023
20. **Dennis AT**. Maternal experiences of pain and anxiety during childbirth - Best Paper presented in Labour Analgesia Session, Obstetric Anaesthetists Association Meeting. Edinburgh, Scotland, May 2023
21. **Caulfield K, McMahon O, **Dennis AT**. Comparison of haemoglobin concentration measured using three different techniques in pregnant people undergoing vaginal birth. Obstetric Anaesthetists Association Meeting. Edinburgh, Scotland, May 2023. (Presented in Pick of the Posters Session)
22. **Kane S, **Dennis AT**, Da Silva FC, Kornman LH, Cade TC, Brennecke SP. Ophthalmic ultrasound in the prediction of preeclampsia. International Society for the Study of Hypertension

in Pregnancy World Congress Meeting September 2023 [Kane S, Dennis AT, Costa FD, Kornman LH, Cade TJ, Brennecke SP. Ophthalmic ultrasound in the prediction of preeclampsia. Pregnancy Hypertension. 2024 Aug 1;36:24.]

Narrative Report

I am an academic clinician researcher from Australia having completed a Fulbright Scholarship at the Brigham and Women's Hospital. I was awarded this Fulbright Future Scholarship to continue my work in preeclampsia research in the US. My award was the highest ranked medical science scholarship awarded in 2023.

My subspecialty clinical, teaching and research work is in obstetric anesthesiology, obstetric perioperative medicine and critical care, preeclampsia, and obstetric echocardiography. I have developed a unique and world-renowned research program based around these topics that has so far attracted over \$460,000.00 (AU\$770,000.00) in research funding. I have 30 years of clinical experience with expertise in anesthesia, critical care and perioperative management of high-risk pregnant people.

Even before embarking on my medical career I was driven by a need to be at the forefront of knowledge, and to contribute to the expansion of the world's knowledge boundary for the benefit of all people.

Having completed my medical degree, I followed the path of clinical anesthesiology with a subspecialty interest in obstetric anesthesiology and critical care. I was struck by the prevalence of people with preeclampsia throughout the world's population, and questioned the dichotomy of what was currently taught about preeclampsia (poor heart function and severely constricted circulation) and what I experienced in preeclampsia patients as a clinician (a bounding pulse and warm extremities). I noted that technology existed to determine heart function in people with preeclampsia, that being echocardiography. However, echocardiography had not previously been used in such patients at the bedside. I saw this as an opportunity to examine and understand heart function in patients with preeclampsia for the first time. I undertook a postgraduate diploma of echocardiography and, armed with these skills, I embarked on a PhD.

Through my PhD studies I discovered that the heart function in the patients with preeclampsia was elevated compared to the healthy patients, which was the opposite of what was being taught at the time. I then developed an international collaboration with a team in South Africa to repeat the experiments in a sicker population, and the same observations were made. This work in the haemodynamics of preeclampsia has enabled me to identify an alternative mechanism for the causes of preeclampsia and consideration of new prevention and treatment options in its management. This new theory of the physiology preeclampsia (the Constant Stimulus and Adaptive Response (CSAR) Model of preeclampsia) has been the cornerstone of my experimental research, editorial commentary, and review articles ever since, as I have strived to further understand the physiology and hemodynamics of heart function in these people. It was for this work, and its continuation in the US, that I was awarded the Fulbright Scholarship in 2023. In 2024 I was awarded the Douglas Joseph Professorship by the Australian and New Zealand College of Anaesthetists (ANZCA) in recognition of this body of work and the development of a collaborative site in Australia at the Joan Kirner Women's and Children's Sunshine Hospital.

As a result of my PhD work and ongoing research studies I have been able to promote the use of transthoracic echocardiography, raise awareness of obstetric critical illness, advocate for pregnant women, and promote the central role that obstetric anesthesiologists play in reducing morbidity and mortality at a global level.

Education is a key component of the work I do and has led me to develop world-first techniques and teaching such as the Rapid Obstetric Screening Echocardiography ("ROSE") scan, and the first obstetric perioperative medicine course.

Early in my PhD I had opportunities to speak internationally about preeclampsia; a rare topic for anesthesiologists to talk about at that time, and I have continued to present my work internationally

so that preeclampsia is now often a regular session at anesthesiology conferences, attracting research papers from many centers. I have developed a reputation as the world expert in preeclampsia research in anesthesiology, being regularly invited to give keynote and plenary lectures on the topic around the world.

Due to the novelty and innovative nature of my research work I have overwhelmingly been either the first author of publications, or else the direct supervisor of the first author. In the latter case I have shepherded the mentee from the nexus of my ideas, through the ethics approvals and performance of the study, and finally the writing up of and presentation of the work to an international audience. Many have been awarded prizes for this along the way.

With over 30 years of clinical experience since graduating medical school, primarily in the sub-specialty area of obstetric and gynecological anesthesiology, I have developed an expertise in the clinical aspects of my work. I am regularly called upon to provide expert anesthesiology advice in the high risk setting of an obstetric tertiary referral hospital. Patients regularly track me down to thank me for the work I have done with them.

I am an encourager, promoter and supporter of my colleagues. I believe that the health and safety of patients is intrinsically linked to healthy professionals working together who are driven by shared understandings and integrity. With that in mind I seek out trainee doctors, anesthesiology residents and Fellows at an early stage and encourage them to take part in clinical research under my guidance. I have successfully mentored dozens of such staff both formally and informally, providing them with major opportunities to conduct research, write abstracts and papers, present at local, national and international meetings, and apply for research awards. Over the last nine years I have had seven students (mentees) present research work for consideration as a recipient of the Kevin McCaul Prize awarded to one person each year by the Australian Society of Anaesthetists – a prestigious national prize for best scientific research in the field of women’s anesthesiology. All seven students won the prize. I am the only mentor and supervisor in the history of prize (commencing in 1978) who has had more than one of their students win the prize. My students have won many more research awards around the world under my guidance and mentorship and are now practicing medicine in many locations in the world and excelling in their careers.

I continue to advocate for the profession of anesthesiology in Australia and around the world. In 2021 I won the President’s Award “for extraordinary service to the Australian Society of Anaesthetists”. This award recognized my ability to negotiate, strategize, and advocate for marginalized groups in the community when engaging with the Australian Government’s Department of Health. It is a discretionary award and has only been awarded to two other people in the last decade.

In February 2023 I was awarded a Fulbright Scholarship to continue my research work in people with preeclampsia. Sixteen years after my first visit I chose to use this opportunity to return to the Brigham and Women’s Hospital and Harvard Medical School to undertake The Hopeful Hearts Project: a project with the lofty goals of providing the final pieces of evidence to explain the physiological mechanisms behind the condition we call preeclampsia, and the CSAR model, and implement the widespread use of echocardiography. With my friends and colleagues at the Brigham and Women’s Hospital we have achieved IRB approval and registration with the US Clinical Trials Registry to undertake this work. As a Fulbright Scholar, and clinician researcher anesthesiologist I am now looking forward to the next phase of my career; ongoing and new alliances to enable us to work together in the most efficient, productive and enjoyable manner to achieve goals for the benefit of humanity.

Additional Information

Business and Professional Training and Skills:

2008	Statistics for research workers University of Melbourne, Faculty of Science <i>Key skills learnt:</i> SPPS and Minitab statistical programs competency; Quantitative statistical analysis (basic training)
2012	Media Spokesperson training Corporate Media Services <i>Key skills learnt:</i> preparing for and giving media interviews for radio, television, social media and print
2018	Supervisor Graduate Researcher Course University of Melbourne
2011, 2014, 2017, 2021, 2024	Advanced Life Support Provider Course Australian Resuscitation Council/Resuscitation Council UK Course Provider: Advanced Resuscitation Training, Royal Melbourne Hospital (2011), Alfred Hospital (2014, 2017), South Australia (2021), Parasol, South Australia (2024) <i>Key skills learnt:</i> ALS2 certification (valid until 07/12/2028)
2023, 2024	Occupational Violence and Aggression Core Training Royal Women's Hospital, Parkville and Western Health, Sunshine, Australia
2023, 2024	Cultural Awareness Programs Australian Indigenous Doctor's Association, Western Health, Sunshine, Australia Aboriginal and Torres Strait Islander Cultural Awareness training, WA, Australia
2023	Essential Directors Update Australian Institute of Company Directors
2023	Effective Whistleblower Programs – Evolving expectations and practical strategies Australian Institute of Company Directors
2023	Why the Uluru Statement is a National Governance Issue event Australian Institute of Company Directors
2023	Good Clinical Practice Brigham and Women's Hospital Good Clinical Practice ARCS Australia Ltd (2015) <i>Key skills learnt:</i> GCP certification
2023	Supervisor Graduate Researcher Course University of Melbourne

2023	Foreign Interest Disclosure eLearn University of Melbourne
2024	Justice – moral and political philosophy academic course HarvardX – Harvard University (certificate course, passed)

Other peer-reviewed scholarship: Published Abstracts

** indicates first author is my mentee

1. ** Lancefield T, Farouque O, **Dennis AT** et al Local experience with peripartum cardiomyopathy: Are the tides turning? *Heart, Lung and Circulation* 2009; 18(Supp 3):S167-S168
2. **Dennis AT**, Castro J, Simmons SW, Carr C, Permezel M, Royse CF. Left ventricular systolic and diastolic function and structure in women with untreated preeclampsia. *International Journal of Obstetric Anaesthesia* 2010; 19(S1):S11
3. **Dennis AT**, Castro J, Simmons SW, Carr C, Permezel M, Royse CF. Left ventricular systolic and diastolic function and structure in women with untreated preeclampsia. *Pregnancy Hypertension* 2010; 1(1):S1 – S41
4. ** Griffiths S, **Dennis AT**. The effect of passive leg raising on haemodynamics in healthy term pregnant women. *Anaesthesia and Intensive Care* 2012; 40(6):1062-1063
5. **Dennis AT**. Cardiac function in women with severe preeclampsia. *Anaesthesia and Intensive Care* 2012; 40(6):1061-1062
6. ** Lee M, **Dennis AT**. Management of labour and birth in a woman with refractory supraventricular tachycardia. *International Journal of Obstetric Anaesthesia* 2012; 21(S1):S26(P22)
7. **Dennis AT**. Cardiac function in women with severe preeclampsia. *International Journal of Obstetric Anaesthesia* 2012; 21(S1):S25(P20)
8. ** Lau S, Carr C, Wood S, **Dennis AT**. The impact of pre-eclampsia on the childbirth experience. *International Journal of Obstetric Anaesthesia* 2012; 21(S1):S22(P14)
9. ** Griffiths S, **Dennis AT**. The effect of passive leg raising on haemodynamics in healthy term pregnant women. *International Journal of Obstetric Anaesthesia* 2012; 21(S1):S11(O12)
10. **Dennis AT**, Dyer RA, Gibbs M, Nel L, Myburgh A, Castro JM, Swanevelder JL. Cardiac function & structure using transthoracic echocardiography in term HIV positive women.
11. Pollock WE, Flood M, **Dennis AT**, Lapinsky S, Konig K, Harley N, McDonald S. Development of a severity of preeclampsia score: an e-Delphi study. *Perinatal Society of Australia and New Zealand* 2014; 23(S1):S12
12. **Dennis AT**, Dyer RA, Gibbs M, Nel L, Castro JM, Swanevelder JL. Haemodynamics using transthoracic echocardiography in women with untreated preeclampsia in South Africa. *Obstetric Anaesthetists Association of the United Kingdom. International Journal of Obstetric Anaesthesia* 2014; 23(S1):S8
13. **Dennis AT**, Dyer RA, Gibbs M, Nel L, Castro JM, Swanevelder JL. Transthoracic echocardiography in patients with preeclampsia and pulmonary oedema. *Obstetric Anaesthetists*

- Association of the United Kingdom. *International Journal of Obstetric Anesthesia* 2014; 23(S1):S13
14. ** Leung D, Walsh J, Blackford D, Vialle M, **Dennis AT**. Australasian obstetric neuraxial antisepsis survey. *Obstetric Anaesthetists Association of the United Kingdom. International Journal of Obstetric Anesthesia* 2014 23(S1) S41
 15. **Dennis AT**, Dyer RA, Gibbs M, Nel L, Castro C, Swanevelder JL. The use of transthoracic echocardiography to quantify hemodynamics in women with severe preeclampsia. *Society of Obstetric Anesthesiologists and Perinatologists United States of America* 2014
 16. ** Pears S, Sunderland N, **Dennis AT**, Lim S, Chau K, Aggarwal S, Heffernan S, Downey R, Ogle R, Iliopoulos J, Hennessy A, Makris A. Acute Blood Pressure Response to Antihypertensives during Anaesthesia in an Experimental Model of Preeclampsia. *High Blood pressure Research Council of Australia Annual Scientific Meeting* 2015
 17. **Dennis AT**, Dyer RA, Gibbs M, Nel L, Myburgh A, Castro JM, Swanevelder JL. Cardiac function & structure using transthoracic echocardiography in term HIV positive women. *Obstetric Anaesthetists Association of the United Kingdom. International Journal of Obstetric Anesthesia* 2014 23(S1) S7
 18. **Dennis AT**, Castro JM. Haemodynamics and hypertension in pregnant women – is a unified theory of pre-eclampsia possible? *BJOG* 2015; 222:363-364
 19. **Dennis AT**. Obstetric Haemorrhage – still a long way to go. *Anaesthesia and Intensive Care* 2016; 44(1):158-159
 20. **Dennis AT**. Science, sex and society – why maternal mortality is still a global health issue. *Anaesthesia and Intensive Care* 2016; 44(1):150-151
 21. **Dennis AT**. Preeclampsia update – The unified theory of preeclampsia. *Anaesthesia and Intensive Care* 2016; 44(1):136-137
 22. **Dennis AT**, Chambers E. Maternal morbidity – an analysis of High Dependency Unit care in pregnant or recently pregnant women. *International Journal of Obstetric Anesthesia* 2016; 26(S1);S31
 23. ** Warren M, Kamanian J, **Dennis AT**. Immediate birth – an analysis of women undergoing time critical birth in a tertiary referral obstetric hospital. *International Journal of Obstetric Anesthesia* 2016; 26(S1);S26
 24. **Dennis AT**, Mulligan S.M. Analgesic requirements and pain experience after caesarean section under neuraxial anaesthesia women with pre-eclampsia. *International Journal of Obstetric Anesthesia* 2016; 26(S1);S29
 25. Chen SSM, Leeton L, **Dennis AT**. Quantification of haemodynamics and myocardial tissue characteristics in healthy pregnant women and women with pre-eclampsia using cardiac magnetic resonance. *International Journal of Obstetric Anesthesia* 2016; 26(S1);S6
 26. **Dennis AT**, Hardy L, Leeton L. The Prone Position in Preeclampsia (P3) Study. *International Journal of Obstetric Anesthesia* 2016; 26(S1);S32
 27. **Dennis AT**, Lamb K, Tew M, Dalziel K, Clarke P, Lew J, Story D, Parker A, Hessian E, Teale G, Simmons S, Casalaz D The association between maternal size and outcomes for women

- undergoing for caesarean section: a multicentre prospective observational study (The MUM SIZE Study). *International Journal of Obstetric Anesthesia* 2016; 26(S1):S14
28. ** Pears S, Sunderland N, **Dennis AT**, Makris A. Acute blood pressure response to antihypertensives during anaesthesia in an experimental model of preeclampsia. July 2016 *Pregnancy Hypertension* 6(3):211
 29. ** Salman M, Yentis SM, Paxton E, Flint M, Leeton L, Dyer RA, **Dennis AT**. Exertion and breathlessness in pregnant women: an international multicentre prospective cohort study using the Six-Minute Walk Test. *International Journal of Obstetric Anesthesia* 2017; 31;(S1):P44: S33
 30. **Dennis AT**, Salman M, Paxton E, Flint M, Leeton L, Yentis SM, Dyer RA. The Six Minute Walk test in pregnant women: an international multicentre exercise and haemodynamic study. *International Journal of Obstetric Anesthesia* 2017; 31; P43:(S1):S33
 31. **Dennis AT**, Buckley AB, Mahendrayogam T, Leeton L. Optimal positioning for haemodynamics in term pregnant women. *International Journal of Obstetric Anesthesia* 2017; 31; P20:(S1):S21.
 32. ** Ferguson M, Jackson S, **Dennis AT**. Pre-operative anaemia in women undergoing caesarean section *International Journal of Obstetric Anesthesia* 2018; 35;(S1):P7.S15
 33. **Dennis AT**, Francis A, Leeton L. Assessment of exercise capacity and oxygen utilization, and the prediction of pre-eclampsia in women in early pregnancy using the Six Minute Walk Test *International Journal of Obstetric Anesthesia* 2018; 35;(S1):O.10: S11
 34. ** O'Donnell M, **Dennis AT**. Maternal anaemia and postoperative outcomes after caesarean section surgery. The MAPOC Study. *International Journal of Obstetric Anesthesia* 2023;54:Supplement 1. Article 103662 O10
 35. Traer E, Ismail H, Leeton L, Bernhard R, **Dennis AT**. Oxygen utilisation and anaerobic threshold measured using cardiopulmonary exercise testing in healthy pregnant women. *International Journal of Obstetric Anesthesia* 2023;54:Supplement 1. Article 103659 O7
 36. ** Unal BS, **Dennis AT**. Perioperative outcomes in surgical patients with preeclampsia. *International Journal of Obstetric Anesthesia* 2023;54:Supplement 1. Article 103793 P131
 37. ** Zhang K, **Dennis AT**. The use of lumbar epidural analgesia and anaesthesia for vaginal twin birth. *International Journal of Obstetric Anesthesia* 2023;54:Supplement 1. Article 103718 P56
 38. **Dennis AT**. Maternal expectations and actual experiences of pain and anxiety during childbirth. *International Journal of Obstetric Anesthesia* 2023;54:article 103720 P58
 39. ** Caulfield K, McMahon O, **Dennis AT**. Comparison of haemoglobin concentration measured using three different techniques in pregnant people undergoing vaginal birth. *International Journal of Obstetric Anesthesia* 2023;54:Supplement 1. Article 103672 P10

Other peer-reviewed scholarship: Conference Abstracts

** indicates first author is my mentee

1. **Dennis AT**. Preeclampsia: Issues for Anaesthetists. The Australian and New Zealand College of Anaesthetists Annual Scientific Meeting, Sydney, Australia, 2008

2. **Dennis AT.** Transthoracic echocardiography and obstetric critical illness. The Australian and New Zealand College of Anaesthetists Annual Scientific Meeting, Cairns, Australia, 2009
3. **Dennis AT.** The Rapid Obstetric Screening Echocardiographic Examination. Accepted abstract The Australian and New Zealand College of Anaesthetists Annual Scientific Meeting, Christchurch, New Zealand, 2010
4. **Dennis AT.** Preeclampsia and cardiac crises. ASA NSC, Sydney, Australia, 2011
5. **Dennis AT.** New insights into the haemodynamic changes of preeclampsia. The Australian and New Zealand College of Anaesthetists & Hong Kong College of Anaesthesiologists Combined Scientific meeting, Hong Kong, China, 2011
6. **Dennis AT, Dixon J.** Venous air embolism at the time of caesarean birth: time to look again. Inaugural Newcastle Anaesthetic Meeting, Newcastle, Australia, 2012
7. **Dennis AT, Dixon J.** Maternal Transthoracic Echocardiographic Appearances at the Time of Caesarean Birth in Healthy Women. ASA National Scientific Congress Hobart, Australia, 2012
8. **Dennis AT.** The ROSE Scan – Transthoracic echocardiography in obstetric critical illness. Australian Society of Anaesthetists (ASA) National Scientific Congress (NSC) Canberra, Australia, 2013
9. **Dennis AT, Morosan M** Acute fatty liver of pregnancy – 10-year retrospective review of cases at a tertiary referral obstetric hospital. Australian and New Zealand College of Anaesthetists Annual Scientific Meeting, Melbourne, Australia, 2013
10. **Dennis AT, Morosan M, Sha S.** Mediastinal lymphoma in a pregnant woman. Australian and New Zealand College of Anaesthetists Annual Scientific Meeting, Melbourne, Australia, 2013
11. **Dennis AT, Chambers E.** Maternal morbidity – an analysis of High Dependency Unit care in pregnant or recently pregnant women. Society of Anesthesiology and Perinatology, Boston, USA, 2016
12. ** Warren M, Kamanian J, **Dennis AT.** Immediate birth – an analysis of women undergoing time critical birth in a tertiary referral obstetric hospital. Society of Anesthesiology and Perinatology, Boston, USA, 2016
13. **Dennis AT, Mulligan S.M.** Analgesic requirements and pain experience after caesarean section under neuraxial anaesthesia women with pre-eclampsia. Society of Anesthesiology and Perinatology, Boston, USA, 2016
14. **Dennis AT, Hardy L.** Defining a reference range for vital signs in healthy term pregnant women undergoing caesarean section. Society of Anesthesiology and Perinatology, Boston, USA, 2016
15. Chen SSM, Leeton L, **Dennis AT.** Quantification of haemodynamics and myocardial tissue characteristics in healthy pregnant women and women with pre-eclampsia using cardiac magnetic resonance. Society of Anesthesiology and Perinatology, Boston, USA, 2016
16. **Dennis AT, Hardy L, Leeton L.** The Prone Position in Preeclampsia (P3) Study. Society of Anesthesiology and Perinatology, Boston, USA, 2016
17. **Dennis AT, Lamb K, Tew M, Dalziel K, Clarke P, Lew J, Story D, Parker A, Hessian E, Teale G, Simmons S, Casalaz D** The association between maternal size and outcomes for women

undergoing for caesarean section: a multicentre prospective observational study (The MUM SIZE Study). Society of Anesthesiology and Perinatology, Boston, USA, 2016

18. ** Spicer M, **Dennis AT**. The Six Minute Walk test in healthy nulliparous young women. Royal Australasian College of Obstetricians and Gynaecologists, Melbourne 2019
19. **Pears S, **Dennis A**, Chau K, Aggarwal S, Shanmugalingam R, Heffernan S, Downey R, Iliopoulos J, Hennessy A, Makris A. Acute Blood Pressure Response to Antihypertensives During Anaesthesia in an Experimental Model of Preeclampsia. 2024 Hypertension Australia conference (November 2024)

Other Presentations given at National and International Meetings

1. **Dennis AT**. “Cardiac function in women with severe preeclampsia”. The Obstetric Anaesthetists Association Annual Scientific Meeting, Liverpool, UK, May 2012
2. **Dennis AT**. “The effect of passive leg raising on haemodynamics in healthy term pregnant women”. The Obstetric Anaesthetists Association Annual Scientific Meeting, Liverpool, UK, May 2012
3. **Dennis AT**. Haemodynamics in pregnant women with morbid obesity”. The Obstetric Anaesthetists Association Annual Scientific Meeting, Liverpool, UK, May 2012
4. **Dennis AT**. “Haemodynamics using transthoracic echocardiography in women with untreated preeclampsia in South Africa”. The Obstetric Anaesthetists Association Annual Scientific Meeting, Dublin, UK, May 2014
5. **Dennis AT**. “The severity of preeclampsia score: an e-Delphi study”. The Obstetric Anaesthetists Association Annual Scientific Meeting, Dublin, UK, May 2014

Other Posters presented at National and International Meetings

** indicates first author is my mentee

1. **Dennis AT**, Castro J, Simmons S, Carr C, Permezel M. The emerging application of transthoracic echocardiography in obstetric anaesthesia and obstetric critical illness. Society of Obstetric Anesthesiologists and Perinatologists Annual Scientific Meeting, Texas, USA, 2010
2. **Dennis AT**, Castro J, Heffernan S, Hennessy A. Cardiac Function using transthoracic echocardiography in healthy non pregnant and pregnant baboons (*Papio hamadryas*). Society of Obstetric Anesthesiologists and Perinatologists Annual Scientific Meeting, Texas, USA, 2010
3. **Dennis AT**, Castro J, Heffernan S, Hennessy A. Cardiac function using transthoracic echocardiography in healthy non pregnant and pregnant baboons (*Papio hamadryas*). International Society of Hypertension in Pregnancy Meeting, Melbourne, Australia, 2010
4. ** McCarthy T, Telac N, **Dennis AT**, Griffiths G, Buettner A. Comparing the reliability of continuous with intermittent blood pressure monitoring during elective caesarean birth under spinal anaesthesia. Australian Society of Anaesthetists National Scientific Congress, Sydney, Australia, 2011
5. ** Griffiths S, **Dennis AT**. The effect of passive leg raising on haemodynamics in healthy term pregnant women. Australian Society of Anaesthetists National Scientific Congress, Hobart, Australia, 2012

6. **Dennis AT**, RA Dyer, M Gibbs, L, Nel, J Swanevelder. The use of transthoracic echocardiography to quantify hemodynamics in women with severe preeclampsia. Society of Obstetric Anesthesiologists and Perinatologists Annual Scientific Meeting, Toronto, Canada, 2014
7. ** Coowar A, MacIsaac C, **Dennis AT**. Obstetric admissions to an intensive care unit. Australian Society of Anaesthetist National Scientific Congress, Melbourne, September, 2016
8. **Dennis AT**, Lamb K, Tew M, Dalziel K, Clarke P, Lew J, Story D, Parker A, Hessian E, Teale G, Simmons S, Casalaz D The association between maternal size and outcomes for women undergoing for caesarean section: a multicentre prospective observational study (The MUM SIZE Study). Obstetric Anaesthetists' Association Annual Scientific Meeting, Manchester, UK, 2016
9. **Dennis AT**, Hardy L, Leeton L. The Prone Position in Preeclampsia (P3) Study. Obstetric Anaesthetists' Association Annual Scientific Meeting, Manchester, UK, 2016
10. **Dennis AT**, Hardy L. Defining a reference range for vital signs in healthy term pregnant women undergoing caesarean section. Obstetric Anaesthetists' Association Annual Scientific Meeting, Manchester, UK, 2016
11. **Dennis AT**, Mulligan S.M. Analgesic requirements and pain experience after caesarean section under neuraxial anaesthesia women with pre-eclampsia. Obstetric Anaesthetists' Association Annual Scientific Meeting, Manchester, UK, 2016
12. ** Warren M, Kamanian J, **Dennis AT**. Immediate birth – an analysis of women undergoing time critical birth in a tertiary referral obstetric hospital. Obstetric Anaesthetists' Association Annual Scientific Meeting, Manchester, UK, 2016
13. **Dennis AT**, Chambers E. Maternal morbidity – an analysis of High Dependency Unit care in pregnant or recently pregnant women. Obstetric Anaesthetists' Association Annual Scientific Meeting, Manchester, UK, 2016
14. **Dennis AT**, Lamb K, Tew M, Dalziel K, Clarke P, Lew J, Story D, Parker A, Hessian E, Teale G, Simmons S, Casalaz D The association between maternal size and outcomes for women undergoing for caesarean section: a multicentre prospective observational study (The MUM SIZE Study). Society of Anesthesiology and Perinatology Annual Scientific Meeting, Boston, USA, 2016
15. **Dennis AT**, Hardy L, Leeton L. The Prone Position in Preeclampsia (P3) Study. Society of Anesthesiology and Perinatology Annual Scientific Meeting, Boston, USA, 2016
16. Chen SSM, Leeton L, **Dennis AT**. Quantification of haemodynamics and myocardial tissue characteristics in healthy pregnant women and women with pre-eclampsia using cardiac magnetic resonance. Society of Anesthesiology and Perinatology Annual Scientific Meeting, Boston, USA, 2016
17. **Dennis AT**, Hardy L. Defining a reference range for vital signs in healthy term pregnant women undergoing caesarean section. Society of Anesthesiology and Perinatology Annual Scientific Meeting, Boston, USA, 2016
18. **Dennis AT**, Mulligan S.M. Analgesic requirements and pain experience after caesarean section under neuraxial anaesthesia women with pre-eclampsia. Society of Anesthesiology and Perinatology Annual Scientific Meeting, Boston, USA, 2016

19. ** Warren M, Kamania J, **Dennis AT**. Immediate birth – an analysis of women undergoing time critical birth in a tertiary referral obstetric hospital. Society of Anesthesiology and Perinatology Annual Scientific Meeting, Boston, USA, 2016
20. **Dennis AT**, Chambers E. Maternal morbidity – an analysis of High Dependency Unit care in pregnant or recently pregnant women. Society of Anesthesiology and Perinatology Annual Scientific Meeting, Boston, USA, 2016
21. ** Chan J, **Dennis AT**. Prospective audit of women’s experience with epidural analgesia in a tertiary obstetric hospital. Australian and New Zealand College of Anaesthetists Annual Scientific Meeting, Brisbane, Australia, 2017
22. **Dennis AT**, Buckley AB, Mahendrayogam T, Leeton L. Optimal positioning for haemodynamics in term pregnant women. Obstetric Anaesthetists’ Association Annual Scientific Meeting, Brussels, Belgium, 2017
23. **Dennis AT**, Salman M, Paxton E, Flint M, Leeton L, Yentis SM, Dyer RA. The Six Minute Walk test in pregnant women: an international multicentre exercise and haemodynamic study. Obstetric Anaesthetists’ Association Annual Scientific Meeting, Brussels, Belgium, 2017
24. ** Salman M, Yentis SM, Paxton E, Flint M, Leeton L, Dyer RA, **Dennis AT**. Exertion and breathlessness in pregnant women: an international multicentre prospective cohort study using the Six-Minute Walk Test. Obstetric Anaesthetists’ Association Annual Scientific Meeting, Brussels, Belgium, 2017
25. ** Salman M, **Dennis AT**, Wang J, Yentis SM. The assessment of breathlessness in pregnancy: a survey of current practice. Obstetric Anaesthetists’ Association Annual Scientific Meeting, Brussels, Belgium, 2017
26. ** Ferguson M, Jackson S, **Dennis AT**. Pre-operative anaemia in women undergoing caesarean section. Obstetric Anaesthetists’ Association Annual Scientific Meeting, Belfast, Northern Ireland, 2018