

## **CURRICULUM VITAE**

**RICHMOND WILLIAM JEREMY**

**MB.BS. PhD. FRACP. FAHA. FESC. FACC. FCSANZ. GAICD.**

## **Richmond William Jeremy**

Date of Birth: 18<sup>th</sup> February 1956

Australian Citizen

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### **QUALIFICATIONS**

MB BS (Hons 1)	1979	University of Sydney
FRACP	1985	Royal Australasian College of Physicians
PhD	1987	University of Sydney

### **CURRENT POSITIONS**

Professor in Medicine, University of Sydney  
Consultant Cardiologist, Royal Prince Alfred Hospital  
Consultant Cardiologist, Strathfield Private Hospital

**ACADEMIC RECORD**

1974 – 1978	Undergraduate Student (Medicine) - University of Sydney
1975	Prosector in Anatomy “Innervation of small muscles of the hand”
1978	M.B. B.S. (First Class Honours) University of Sydney
1985	Fellowship of Royal Australasian College of Physicians
1985 - 1987	Postgraduate Research Student - University of Sydney. Doctor of Philosophy in Medicine Thesis "The Coronary Circulation in the Normal and Hypertrophied Heart".
1987	ECFMG Certification, Educational Commission for Foreign Medical Graduates, Philadelphia, USA.
1987 – 1990	Postdoctoral Fellow in Cardiology - Johns Hopkins Hospital, Baltimore USA (Preceptors Professor Lewis Becker and Professor Myron Weisfeldt)
2008	Graduate, Australian Institute Company Directors Course

**HOSPITAL APPOINTMENTS**

1979 - 1981	Resident Medical Officer, Royal Prince Alfred Hospital, Sydney.
1982 - 1983	Registrar in Cardiology, Royal Prince Alfred Hospital, and Royal Alexandra Hospital for Children, Sydney.
1984 - 1986	Postgraduate Research Student, National Heart Foundation of Australia.
1984 - 1986	Fellow in Cardiology, Hallstrom Institute of Cardiology, Royal Prince Alfred Hospital, Sydney.
1987	Research Officer in Cardiology, Hallstrom Institute of Cardiology, Royal Prince Alfred Hospital, Sydney.
1987 - 1990	Overseas Research Fellow, National Heart Foundation of Australia.
1987 - 1990	Fellow in Cardiology, Division of Cardiology, The Johns Hopkins Hospital, Baltimore, Maryland, USA.
1990 - 1992	Associate Cardiologist, Royal Prince Alfred Hospital, Sydney.
1991	R. Douglas Wright Fellow, National Health and Medical Research Council.
1992 - Present	Clinical Academic/Cardiologist, Royal Prince Alfred Hospital, Sydney.
1997 - Present	Visiting Cardiologist, Strathfield Private Hospital, Strathfield.

**UNIVERSITY APPOINTMENTS**

1992 - 1996	Senior Lecturer in Medicine (Cardiology), University of Sydney.
1997 - 2002	Associate Professor in Medicine (Cardiology), University of Sydney
2001- 2002	Sub-Dean (Curriculum) Central Clinical School, Faculty of Medicine
2000 – 2002	Associate Dean (Assessment), Faculty of Medicine
2001 - 2002	Associate Dean (Admissions), Faculty of Medicine

2002 - 2003	Associate Dean (Curriculum), Faculty of Medicine
2003 - Present	Professor in Medicine, Faculty of Medicine,
2003- 2005	Associate Dean and Head of School, Central Clinical School, Faculty of Medicine,
2005 - 2006	Associate Dean, Finance and Infrastructure, Faculty of Medicine
2007 - 2009	Pro Vice-Chancellor and Director Campus Infrastructure and Services
2016 – Present	Research Coordinator – Students – Central Clinical School

## **PROFESSIONAL EDUCATIONAL APPOINTMENTS**

1998 - 2002	Member, Accreditation Committee for Medical Schools; Australian Medical Council
2004 - 2010	Editor-in-Chief; Heart Lung and Circulation
2011- 2018	Chair of Continuing Education; Cardiac Society of Australia and New Zealand
2012- 2014	Scientific Program Chair; World Congress of Cardiology
2017 – 2019	Cardiology Editor; Heart Lung and Circulation

## **NATIONAL PROFESSIONAL ASSOCIATIONS**

### **NSW Medical Board**

1980 - Present	Registered Medical Practitioner; Consultant Cardiologist
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### **Medical Officers Association, Royal Prince Alfred Hospital**

1979 - Present	Member
1995- 1997, 2004	Executive Committee Member

**Royal Australasian College of Physicians**

1985 - Present	Fellow
2001- 2006	Member and Chair Specialty Training Committee, Cardiology
2003- 2006	Member Specialties Board
2006- 2007	Chair, Specialties Board

**Cardiac Society of Australia and New Zealand**

1990 - 2005	Member
2001 - 2003	Assistant Secretary/Treasurer and Councillor
2003- 2006	Honorary Secretary
2004 - 2010	Editor-in-Chief, Heart Lung and Circulation
2007	Assistant Secretary/Treasurer and Councillor
2005 - Present	Fellow
2001 - 2018	Board Member and Director
2006 - 2007	Chair Specialty Training in Cardiology
2011- 2018	Chair of Continuing Education
2011 - 2012	President-Elect
2012 - 2014	President
2014- 2015	Past President
2017 – 2019	Cardiology Editor, Heart Lung and Circulation

**International Society for Heart Research (Australia)**

1990 - 2000	Member
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**National Heart Foundation of Australia**

1987- 1989	Overseas Research Fellow
1999 – 2006	Board Member and Director, NSW Division

## **INTERNATIONAL PROFESSIONAL ASSOCIATIONS**

### **American Heart Association.**

1991 – Present            Member of Council on Basic Sciences, Council on Circulation

2001 – Present            Fellow

### **European Society of Cardiology**

2001 - Present            Fellow

2018 - Present            Member; Working Group on Aortic and Vascular Disease

### **American College of Cardiology**

2012 - Present            Fellow

2013 – 2016              International Governor

### **Asia-Pacific Society of Cardiology**

2013 – 2016              Zone Vice-President

### **World Heart Federation**

2012-2014                Scientific Program Chair, World Congress of Cardiology

## **LEADERSHIP AND ACHIEVEMENTS IN EDUCATION**

### **Graduate Medical Program Curriculum Development – University of Sydney**

From 1999 – 2003, I contributed to the development and introduction of the new Graduate Medical Program at the University of Sydney, including:

Associate Dean (Assessment) - responsible for design of a new assessment program, including increased use of formative assessment, improved validity of assessment tools and introduction of a non-graded, criterion-referenced assessment system.

Associate Dean (Admissions) - responsible for developing and implementing a new admissions process for graduate entry to the Medical Program, including use of a semi-structured interview and tiered entry requirements from prior academic achievements and GAMSAT scores.

Associate Dean (Curriculum) – responsible for oversight of the introduction of the New Medical Program, particularly the new clinical stages in Years 3 and 4.

Each of these Associate Dean positions required liaison with faculty stakeholders and building consensus about new initiatives. Capability to understand stakeholder wishes and concerns was of utmost importance, as was commitment to fostering a team focused upon delivery of a coherent, practical medical program in a relatively short timeframe.

### **Review and Accreditation of Medical Schools - Australian Medical Council**

My contributions to the Medical Program were important elements of the University's submissions for accreditation by the Australian Medical Council.

I served as a member of the Accreditation Committee for Medical Schools of the AMC from 1998 – 2002 and through this I became familiar with the processes and requirements for accreditation of new medical programs and for review of existing medical programs in Australia and New Zealand, as well as for accreditation of teaching sites in hospitals and universities.

I have been involved in the Committee's review of medical schools and participated in review visits to individual medical schools. I further contributed to the work of the Committee as a member of a working group, tasked with revising and updating the AMC Accreditation Guidelines at the time. In addition, I have worked with the AMC staff to develop a database, for collation of the voluminous information provided to the Accreditation Committee.



### **Curriculum Development – Kuwait Medical School**

In 2004 – 2005 I worked with the Faculty of Medicine of the University of Kuwait for development of a new problem-based learning course, including staff development workshops, curriculum design, assessment design and implementation.

### **Royal Australasian College of Physicians**

From 2001 to 2005 I served as Coordinator of Advanced Training in Cardiology for the Royal Australasian College of Physicians. In this position I had oversight of the advanced training of all cardiology registrars in Australia, including review of teaching programs, assessment of candidate progress and review of assessments and appeals.

Subsequent to my initial efforts in this position, I was co-opted to membership of the Committee of Physician Training, which had oversight of all training of physicians in Australia and also joined the Specialties Board of the RACP. In 2003, I was elected to represent the Specialties Board on the Adult Division of Medicine Committee of the RACP. In 2007 I was Chair of the Specialties Board and a member of the Adult Division of Medicine Executive Committee, which oversaw standards of training and professional practice in Internal Medicine.

### **National Training Program in Cardiology**

The training of cardiologists in Australia and New Zealand is overseen jointly by the Royal Australasian College of Physicians and the Cardiac Society of Australia and New Zealand. Until recently, there was no defined curriculum and assessment was largely subjective.

In 2006, I led the program for development of a formal training curriculum for all cardiologists in Australia and New Zealand. This program included research on overseas training programs, consultation with stakeholders, direct discussion with cardiologists involved in training and with trainees, convening workshops and the writing of the curriculum, with cross-referencing to international standards where appropriate. The material was prepared to the standard required for accreditation of the training program with the Royal Australasian College of Physicians by the Australian Medical Council.

This training curriculum forms the basis of the current training program for all cardiologists in both Australia and New Zealand.

### **Continuing Professional Development**

Over the years it became evident that the challenge of providing a meaningful and high-quality program of continuing education and recertification in cardiology was increasingly acute. Accordingly, I presented a concept proposal for a new CPD program in cardiology to the Board and members and fellows of the CSANZ in 2011. This concept was approved and I then led the development of a broad Continuing Professional Development Program in cardiology.

The program includes up to date content, self-assessment tools, practice audit recording and learning recording tools and reporting tools. The program is designed to support recertification and registration requirements for cardiologists and allied health professionals in Australia and New Zealand. I was responsible for concept development, financial and business planning and content recruitment and leadership of the CPD committee during this time.

Subsequently, I led the preparation and presentation to the Australian Medical Council for recognition of the CSANZ program.

## **LEADERSHIP AND ACHIEVEMENTS IN UNIVERSITY SERVICE**

### **Associate Dean – Central Clinical School**

In 2003, I became Associate Dean responsible for management of the Central Clinical School – the largest Clinical School of the Faculty of Medicine, including the two major teaching hospitals of Royal Prince Alfred and Concord Hospital, as well as several smaller hospitals. My achievements in the field of financial management, included resolution of an accumulated debt in excess of \$1 million, mobilization of dormant assets and implementation of three and five year forward budget planning, with a focus on sustainability. At the same time, I instigated capital improvement programs for teaching and research at both campuses of the Central Clinical School, including refurbishment of teaching and laboratory spaces in the Blackburn Building and new computer-aided teaching facilities at the Concord Hospital. I also commenced capital planning for redevelopment of existing facilities at the RPAH/University site.

### **Associate Dean – Finance and Infrastructure**

In 2005, I took up the position of Associate Dean (Finance and Infrastructure) with responsibility for the financial sustainability of the Faculty of Medicine and improving the capital infrastructure of the Faculty across all its clinical schools.

In 2013, the new Charles Perkins Centre was opened by the University of Sydney and it stands upon lands transferred from St John's College to the University. I was responsible for the

concept of a new multidisciplinary research building on then underused lands held under trust for St John's College and it was my approach to the then Rector of the College which opened the way for negotiations between the College and University. These negotiations involved a complex land deed and required careful liaison with the College Council, the Vice-Chancellor and senior University management as well as working directly with internal and external senior legal counsel for the University.

At the same time, I was involved in the provision of a major new medical research building at the Royal North Shore Hospital. This project also required complex legal negotiations with NSW Health, which I led for the University, as well as close team-work with architects and laboratory designers to ensure a quality outcome. As a result of these efforts, the research building was the first major new building completed on the RNSH campus and researchers there now have a modern, fit-for-purpose facility for the first time in the campus' history.

Other projects I led during this time included the acquisition of land and planning for a new clinical and research building at the Nepean Hospital campus, and the purchase and refurbishment of a new research building for the Woolcock Institute.

As a result of my success in these projects, in 2007 I became Acting Pro Vice- Chancellor (Campus Planning) and later that year took on the role of Pro Vice Chancellor and Director of Campus Infrastructure and Services.

### **Pro Vice-Chancellor and Director Campus Infrastructure and Services**

My key performance targets in this position were to:

- a) restructure the Campus Infrastructure and Services Division, in order to improve productivity and reduce costs
- b) oversee delivery of the \$300 million Campus 2010 capital development program
- c) develop a masterplan for the future redevelopment of the University
- d) negotiate potential expansion of the University campus

Restructuring of the Division involved delicate negotiations with staff and relevant union bodies. A program of voluntary redundancy, review of job descriptions, personnel redeployment and support was initiated and the restructure was successfully achieved without industrial or workplace disruption. I was responsible for coordinating a team of HR, financial and service managers in order to achieve this outcome. The result was improvement in service efficiency at reduced cost to the University, thereby liberating resources for capital redevelopment.

The Campus 2010 construction program was underway when I took over CIS leadership, with the new building on Cleveland St already completed. I was then responsible for overseeing the delivery of the new Law School, the new administration building on City Road and the Eastern Avenue redevelopment. This was a complex task requiring leadership of multiple teams at the same time and close working relations with architects, senior University management, financial

managers and project managers and construction companies. The program was delivered within budget and ahead of schedule.

No comprehensive masterplan for development of the University campus had been done for over 50 years and none had included the Darlington campus. I was responsible for scoping the new masterplan, including consultation with stakeholders and projection of University needs for the next three decades.

At the same time, the University was exploring potential expansion to new sites, including Callan Park and Eveleigh and I was responsible for leading University engagement with the NSW Government and the community about these initiatives.

## **LEADERSHIP AND ACHIEVEMENTS IN CLINICAL PRACTICE**

### **The Marfan and Aorta Service**

My principal clinical and research interests are in the field of inherited aortic disease and I have over thirty years experience in this field, and I am recognized as one of the leaders in the field in Australia and New Zealand.

The Service has grown from a small monthly clinic to a multidisciplinary service, including cardiology, cardiac surgery, vascular surgery and clinical genetics and cares for over 2000 patients.

At the same time, I have built the capability for a multidisciplinary research program, including clinical databases, blood and tissue banks and both clinical and laboratory research. Important research collaborations are established with interstate cardiologists, pathologists, vascular biologists and cardiothoracic and vascular surgeons as well as clinical psychologists and clinical geneticists. The program has research students from Honours level through Masters and PhD level. The strength of the program is underscored by the number of research students seeking to join the program and by the recent recruitment of international post-doctoral researchers. The program now regularly hosts international research students.

Most recently, our program has been invited to join the Montalcino Aortic Consortium, the only adult aortic service in the Southern Hemisphere to do so. This international research consortium seeks to improve our understanding of the causes and mechanisms of aortic aneurysm disease.

I am regularly invited to present clinical and research findings at national and international cardiology meetings. At the same time, I have served as an expert adviser to the NSW Coroner and NSW Department of Health on aortic disease.

## **LEADERSHIP AND ACHIEVEMENTS IN PROFESSIONAL SERVICE**

During the last 20 years, I have sought to serve the profession of cardiology in Australia and New Zealand, through contribution to educational improvement and support of professional practice standards. I have occupied a number of roles relevant to education and training within the Cardiac Society of Australia and New Zealand and the Royal Australasian College of Physicians during this time. All of these activities have been undertaken *pro bono*. Some of my achievements are summarized in the following paragraphs.

### **Fellowship of the Cardiac Society of Australia and New Zealand**

Whilst I was Secretary of the CSANZ, I was responsible for working with the then President for development of a formal Fellowship qualification. My contributions included development of criteria and assessments for award of fellowship, liaison with legal representatives regarding the Fellowship and consultation with stakeholders, including the Royal Australasian College of Physicians.

### **Heart Lung and Circulation Journal**

In 2004, the Australasian Society of Cardiothoracic Surgeons approached the Cardiac Society of Australia and New Zealand about taking ownership of their small journal of cardiac surgery, which was struggling to compete. The CSANZ asked me to lead the development of a new journal from the original. I then took on the role of Editor-in-Chief and drove the new journal, renamed as Heart Lung and Circulation. During my time as Editor-in-Chief the publication frequency rose from quarterly to monthly, page numbers quadrupled, as did number of submitted manuscripts, whilst the standard for manuscript acceptance rate increased significantly. The journal achieved full PubMed indexation and returns a healthy operating surplus each year. Most recently I have renegotiated the publishing agreement for the journal and overseen a complete redesign of presentation with modernization and addition of electronic supplements.

### **Australasian Cardiac Outcomes Registry Ltd**

In support of professional standards and audit of practice quality, the CSANZ has supported the development of a Cardiac Procedures Registry for all interventional cardiac procedures in Australia and New Zealand. As a member of the Board of ACOR, I have been responsible for the legal and financial framework supporting the registry and for negotiation of registry subcontracts with the South Australian Health and Medical Research institute. I have also been responsible for developing the governance of the ACOR registries.

Subsequently, the Commonwealth Department of Health sought public tenders for provision of a national clinical quality registry for High-Risk Medical Devices. The tender time-frame was very short and I led the tender writing team, which submitted the tender that was accepted by the Department of Health. Subsequently, I was responsible for direct contract negotiations with senior departmental officers and their legal advisers, which culminated in the successful conclusion of contract between ACOR and the department. These two registries are of national and international importance in support of safety and quality of health care in cardiology and cardiac surgery.

**World Congress of Cardiology**

In 2012, the World Heart Federation awarded the World Congress of Cardiology to the CSANZ, with the Congress to be held in Melbourne in May 2014. I was one of the international Scientific Program Co-chairs, responsible for development of the Congress program, including identifying key themes, international and national speakers, topic leaders and review and programming of original research presentations. This project involved close liaison with World Heart Federation staff in Geneva and the USA and also with cardiology leaders in India and China.

## **COMMUNITY SERVICE**

### **Corporate Directorships**

1999- 2006	Board Member, NSW Division, National Heart Foundation
2001 – Present	Board Member and Chair, Cardiac Society of Australia and New Zealand
2003- 2004	Board Member, Institute for Magnetic Resonance Research
2004 - 2010	Board Member and Chair, Heart Lung and Circulation Ltd
2012 – Present	Board Member and Chair, CSANZ Education Trust
2013- Present	Board Member, Australasian Cardiac Outcomes Registry Ltd
2014 - Present	Board Member, Baird Institute

**RESEARCH****Supervision of Postgraduate students:****PhD students**

<b>Dr Mark Adams</b>	1994-1997 Project "Vascular reactivity in early atherosclerosis"
<b>Dr. Zhang Yi</b>	1996-2000 Project "New approaches to myocardial infarction in humans"
<b>Dr. Lisa Simmons</b>	1997-2000 Project "Cardiovascular physiology of normal and hypertensive pregnancy"
<b>Dr. Ananth Prasan</b>	1999-2001 Project "Molecular Mechanisms of myocardial ischemia-reperfusion injury"
<b>Ms Melanie White</b>	2001 – 2005 Project "Protein changes during ischaemia and reperfusion in rabbit myocardium"
<b>Mr Adrian Tchen</b>	2004 - 2007 Project "Functional consequences of proteomic modifications in stunned myocardium."
<b>Ms Yaxin Liu</b>	2010 –2013 Project "Biomarkers of development of thoracic aortic aneurysm"
<b>Dr Elizabeth Robertson</b>	2013 – 2017 Project "Molecular mechanisms of genetic aortopathy"
<b>Dr Andrew Sherrah</b>	2013 – 2017 Project "Surgical outcomes in aortic disease"



### **MPhil Students**

<b>Dr Nelson Wang</b>	2016-2018 Project: "Improved risk stratification in genetic aortic disease"
<b>Dr Geoff Lester</b>	2017- Project: "Hemodynamics in genetic aortic disease"
<b>Dr Abraham Rizkalla</b>	2018 – Project "Hemodynamic wall stress and risk of aortic dissection"

### **Masters Students**

<b>Mr Mohammed Tazzilli</b>	1996 Project "Finite-element modeling of mechanical properties of atherosclerotic plaques."
<b>Mr. Adrian Tchen</b>	2002 Project "Relation between oxygen radicals and alteration of the myocardial proteome."
<b>Ms Emily Connors</b>	2011-2012 Project: "Coping with a diagnosis of genetic aortopathy"
<b>Ms Candice Dilworth</b>	2012-2013 Project: "Role of TGFb in genetic aortopathy"
<b>Ms Jocelyn Ling</b>	2014-2015 Project " An interventional guide for coping with a diagnosis of genetic aortopathy"

### **Postdoctoral Researchers**

<b>Dr Renjing Liu</b>	2013-2014    Yale University Project " Angiotensin and gene variant interaction in pathogenesis of thoracic aortic aneurysm"
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**Dr Denise van der Linde**      2014-15      Erasmus University  
Project; "Novel phenotypes in heritable aortic disease"

### **International Research Students**

Aletta de Wit      2012      Erasmus University  
Project "Aortic stiffness and progression of aneurysm"

Kelly Vis      2012      Erasmus University  
Project "Aortic stiffness and progression of aneurysm"

Jantine Oosterhuis      2013      Erasmus University  
Project "Ventricular vascular coupling in genetic aortopathy"

Farina Loeper      2014      Berlin University  
Project "Ventricular loading responses in Marfan syndrome"

Mark van den Dorpel      2015      Erasmus University  
Project "Right ventricular function in genetic aortopathy"

Chekka Bakkers      2015      Maastricht University  
"Genotype-Phenotype Correlations in Marfan Syndrome"

Iris van der Saar      2017      Erasmus University  
Project "Changes in ventricular function in Marfan Syndrome –  
Five Years Follow Up"

## **RESEARCH AND SCHOLARSHIP**

### **ACADEMIC AWARDS AND DISTINCTIONS**

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|---------|---|
| 1984-6  | Postgraduate Medical Research Scholarship.<br>National Heart Foundation of Australia.                                       |
| 1984    | The Ralph Reader Prize.<br>Cardiac Society of Australia and New Zealand.  |
| 1984    | Advanced Trainee Research Prize.<br>NSW State Committee, Royal Australasian College of Physicians.                          |
| 1984    | Travelling Scholarship.<br>ICI Pty. Ltd. Australia.   |
| 1985    | The Inaugural Research Prize for Advanced Trainees.<br>Royal Australasian College of Physicians.                            |
| 1985    | The Patron's Prize for Research.<br>Medical Board of Royal Prince Alfred Hospital, Sydney.                                  |
| 1987    | Telectronics Overseas Research Fellowship.<br>Royal Australasian College of Physicians.                                     |
| 1987-90 | Overseas Research Fellowship.<br>National Heart Foundation of Australia.  |
| 1988    | The R.T.Hall Prize for Research<br>Cardiac Society of Australia and New Zealand.  |
| 1989    | Research Fellowship in Department of Cardiology Johns Hopkins Medical<br>Institutions, Baltimore, United States of America. |
| 1991-92 | R. Douglas Wright (New Investigator) Fellowship.<br>National Health and Medical Research Council of Australia.              |
| 1993    | Best Research Poster Prize.<br>Cardiac Society of Australia and New Zealand.  |
| 1999    | Best Research Poster Prize (co-author)<br>Cardiac Society of Australia and New Zealand                                      |
| 2004    | Yvonne Ahlmgren Research Prize<br>National Heart Foundation   |

### **PUBLICATIONS**

## Monographs and Book Chapters

- 1 **Jeremy RW.** Cardiovascular Pharmacology Review. Bulletin of the Postgraduate Committee in Medicine, University of Sydney. (1981); 37: 54-62.
- 2 **Jeremy RW** and Harris PJ. Left Ventricular Volume After Acute Myocardial Infarction. "Acute Coronary Care, 1987." Eds. Califf R. and Wagner G. Publ. Martinus Nijhoff, New York. 1987: pp 257-264.
- 3 **Jeremy RW.** The Coronary Circulation in the Normal And Hypertrophied Heart, Doctor of Philosophy Thesis, University of Sydney, Sydney, 1987.
- 4 **Jeremy RW** and Harris PJ. The Natural History of Myocardial Infarction: Lessons for the Thrombolytic Era. In: Acute Coronary Care in The Thrombolytic Era, Eds. Califf R., Mark B. & Wagner G. Year Book Medical Publishers, Chicago, 1988; pp 701-715.
5. Geffen L, Kidd M, **Jeremy RW**, Walters T et al. Accreditation review of Faculty of Medicine, University of Otago. Australian Medical Council 1999.
- 6 King R, Kearney B, Fulham M, Hicks R, **Jeremy RW**, Irwig L, Miles K, Primrose J, Simes J. Positron Emission Tomography. Medicare Services Advisory Committee Report Part 1. Commonwealth of Australia. December 2001.
- 7 **Jeremy RW.** Why you can't have your cake and eat it. Editorial on Medical Litigation. Cardiac Society of Australia and New Zealand. On the Pulse 2001; 13: 4.
- 8 Wakefield D, **Jeremy RW**, Walters T et al. Accreditation review of Faculty of Medicine, University of Tasmania. Australian Medical Council 2001.
- 9 **Jeremy RW.** It wasn't like that in my day. Editorial on Cardiology Trainee Selection. Cardiac Society of Australia and New Zealand. On The Pulse 2002; 14: 1
- 10 Simpson I, Doyle J, Flynn J, Geffen L, Horvath J, **Jeremy RW**, Kane S, Walters T, Verhoeven for the AMC Accreditation Committee. Assessment and Accreditation of Medical Schools. Standards and Procedures. Australian Medical Council Kingston ACT Australia. October 2002.
- 11 Robinson D, Blair R, Jarvis D, **Jeremy RW**, Kayne I, Meredith I, Pitney M, Smith J. Percutaneous transluminal coronary rotational atherectomy for lesions of the coronary arteries. Medicare Services Advisory Committee Report. Commonwealth of Australia May 2002.
- 12 **Jeremy RW.** The Hydra and the Picket Fence. Editorial on Medicine and Refugees. Cardiac Society of Australia and New Zealand On The Pulse 2002; 14: 4.

13. **Jeremy RW.** Quo Vadis Societas? Editorial on future development of CSANZ. Cardiac Society of Australia and New Zealand On The Pulse 2003; 15: 1
14. **Jeremy RW.** Am I Too Old, Doctor? Editorial on the impact of the ageing population on cardiac health care. Cardiac Society of Australia and New Zealand On The Pulse 2003; 15: 2.
15. Primrose J, Blamey S, Hider P, **Jeremy RW**, Kayne I, MacDonald P. Biventricular pacing for congestive cardiac failure. Medicare Services Advisory Committee Report. Commonwealth of Australia. December 2003.
16. **Jeremy RW.** From Sandstone to Stainless Steel. In 150 Years of the Faculty of Medicine. Eds: Sefton A, Cossart Y, Freckleton L. Sydney University Press, Sydney. 2006; pp 279-316.
17. **Jeremy RW** with Cox Richardson Architects. Campus 2020 – Building the University. Capital Development Masterplan Vols 1 – 3. March 2008
18. **Jeremy RW.** Familial Aortic Aneurysm. *Cardiology in General Practice*. 2010.

### Articles in Peer Reviewed Journals:

19. Kearsley JH, **Jeremy RW**, Coates AS. Leucocytoclastic Vasculitis and Skin Necrosis Following Subcutaneous Heparin Calcium. *Int. Med. J.* (1982) 12; 288-289.  
17 citations
20. **Jeremy RW**, Tokuyasu Y, Hutton B, Bautovitch G, Shen W, Kelly DT, Harris PJ. The Reproducibility of Non-Geometric Analysis of Cardiac Output and Left Ventricular Volume by Radionuclide Angiography. *Am. Heart J.* (1985) 110; 1020-1026.
21. **Jeremy RW**, Hughes CF, Fletcher PJ. Effects of Left Ventricular Diastolic Pressure on the Pressure-Flow Relation of the Coronary Circulation During Physiological Vasodilatation. *Cardiovasc. Res.* (1986) 20; 922-930.  
20 citations
22. **Jeremy RW**, Hackworthy RA, Bautovitch G, Hutton B, Harris PJ. Infarct Artery Perfusion and Changes in Left Ventricular Volume in the Month After Acute Myocardial Infarction. *J. Am. Coll. Cardiol.* (1987) 9; 989-995.  
331 citations
23. **Jeremy RW** and Harris PJ. Infarct Artery Perfusion and Changes in Left Ventricular Function After Acute Myocardial Infarction. *Card. Board Rev.* (1987) 4; 62-72.

24. **Jeremy RW**, Bautovich G, Allman KC, Harris PJ. Patterns of Left Ventricular Dilatation During the Six Months After Myocardial Infarction. *J. Am. Coll. Cardiol.* (1989); 13: 304-310.  
220 citations
25. **Jeremy RW** and Becker LC. Neutrophil Depletion Does Not Prevent Myocardial Dysfunction After Brief Coronary Occlusion. *J. Am. Coll. Cardiol.* (1989); 13: 1155-63.  
58 citations
26. **Jeremy RW**, Fletcher PJ, Thompson J. Coronary Pressure-Flow Relations in Hypertensive Left Ventricular Hypertrophy. Comparison of Intact Autoregulation with Physiological and Pharmacological Vasodilation in the Dog. *Circulation. Res.* 1989; 65: 224-236.  
30 citations
27. **Jeremy RW**, Stahl L, Gillinov M, Litt M, Aversano TR, Becker LC. Preservation of Coronary Flow Reserve in Stunned Myocardium. *Am. J. Physiol.* 1989; 256 (Heart Circ. Physiol. 25): H1303 - H1310.  
47 citations
28. Litt M, **Jeremy RW**, Weisman HF, Winkelstein JA, Becker LC. Neutrophil Depletion Limited to Reperfusion Reduces Myocardial Infarct Size After 90 Minutes Ischemia. Evidence for Neutrophil Mediated Reperfusion Injury. *Circulation* 1989; 80: 1816-1827.  
346 citations
29. Links JM, **Jeremy RW**, Frank T, Wagner G, Becker LC. Wiener-Filtering Improves Quantitation of Myocardial Perfusion Deficits by Thallium-201 SPECT. *J. Nucl. Med.* 1990; 31: 1230-1236.  
43 citations
30. **Jeremy RW**, Links JM, Becker LC. Progressive Failure of Coronary Flow During Reperfusion of Myocardial Infarction: Documentation of the No-reflow Phenomenon with Positron Emission Tomography. *J. Am. Coll. Cardiol.* 1990; 16: 695-704.  
160 citations
31. **Jeremy RW**, Koretsune Y, Marban E, Becker LC. The Relationship of Glycolysis to Calcium Homeostasis During Early Reperfusion of Stunned Myocardium. *Circulation Research* 1992;70; 1180-1190.  
154 citations
32. **Jeremy RW**, Ambrosio G, Pike M, Lewis R, Becker LC. The Functional Recovery of Post-Ischemic Myocardium Requires Glycolysis during Early Reperfusion. *J. Mol. Cell Cardiol.* 1993; 25: 261-276.  
85 citations
33. Lima JAC, **Jeremy RW**, Guier W, Bouton S, Zerhouni EA, McVeigh E, Buchalter MB, Weisfeldt ML, Shapiro EP, Weiss JL. Accurate Systolic Wall Thickening by Nuclear Magnetic Resonance Imaging with Tissue Tagging: Correlation with sonomicrometers in normal and ischemic myocardium. *J. Am. Coll. Cardiol.* 1993; 21: 1741-1751.  
73 citations

34. Hwa J, Richards JG, McKay D, Pressley L, Hughes CF, **Jeremy RW**. Natural History of Aortic Dilatation in Marfan Syndrome. *Med. J. Aust.* 1993; 158: 558-562.  
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### **Recent Conference Abstracts**

2019 – American Heart Association– Cassandra Malecki, Elizabeth N Robertson, Kiersten A Liddy, Alex Sahagian, Callum Gover, Yaxin Lu, Murat Kekic, Donna Lai, Brett D Hambly, Richmond W Jeremy. Differential DNA Methylation In Marfan Syndrome Is Associated With Inflammation And Cardiac Contraction

2019 – American Heart Association– Wall Stress Comparison in Genetic Aortopathies. Rizkalla AJ, Puranik R, Jeremy RW.

2019 Obstructive Sleep Apnoea is Associated with Increased Aortic Size, E N Robertson, E Fulthorp, C Gover, B D Hambly, P Cistulli, R Jeremy, I Wilcox, Cardiac Society of Australia and New Zealand Annual Scientific Meeting, 2019

2. *Changes in DNA Indicate a Role of Oxidative Stress in Marfan Syndrome*, Cassandra Malecki, Elizabeth N Robertson, Kiersten Liddy, Alex Sahagian, Yaxin Lu, Donna Lai, Brett D Hambly, Richmond W Jeremy, American Heart Association - Vascular Discovery: From Genes to Medicine, 2019
3. *Cardiovascular phenotype heterogeneity in Marfan syndrome*, Elizabeth Robertson, Stefanie Portelli, Yaxin Lu, Murat Kekic, Paul Bannon, Brett Hambly, Richmond Jeremy, Heart, Lung and Circulation, 2018; Vol. 27, S362; DOI: 10.1016/j.hlc.2018.06.714
4. *Role of microRNA in the Cardiovascular Manifestations in Marfan Syndrome*, Elizabeth Robertson, Stefanie Portelli, Yaxin Lu, Andrew Sherrah, Renjing Liu, Murat Kekic, Paul Bannon, Brett Hambly, Richmond Jeremy, International Clinical Cardiovascular Genetics Conference, 2018
5. Abstract 14489: *The pathogenesis of Marfan Syndrome Involves Epigenetic Regulation of Signalling*, Kiersten Liddy, Alex Sahagian, Elizabeth N Robertson, Cassandra Malecki, Stefanie S Portelli, Yaxin Lu, Murat Kekic, Donna Lai, Brett D Hambly, Richmond W Jeremy, Circulation, 2018; 138: A14489
6. *Thoracic Aortic Aneurysms Associated with Bicuspid Aortic Valve Have Altered microRNA Expression*, Stefanie Portelli, Elizabeth Robertson, Ratnasari Padang, Murat Kekic, Paul Bannon, Brett Hambly, Richmond Jeremy, American Heart Association - Vascular Discovery: From Genes to Medicine, 2018
7. *Down-regulation of miR-376c in Marfan syndrome Contributes to TGF- $\beta$  in Thoracic Aortic Aneurysm Formation*, Elizabeth Robertson, Stefanie Portelli, Yaxin Lu, Murat Kekic, Brett Hambly, Richmond Jeremy; 3<sup>rd</sup> EMCR Symposium, The University of Sydney, 2017
8. *miR-376c is Involved in Marfan syndrome Thoracic Aortic Aneurysms*, Elizabeth Robertson, Stefanie Portelli, Yaxin Lu, Murat Kekic, Brett Hambly, Richmond Jeremy; Bosch Institute Annual Scientific Meeting, 2017
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10. Abstract 20593: *miR376c is Down regulated in thoracic aortic aneurysms in Marfan Syndrome*, Elizabeth N Robertson, Stefanie S Portelli, Yaxin Lu, Andrew G Sherrah, Morvarid Emami, Sanaz Maleki, Donna Lai, Michael Vallely, Michael Wilson, Paul Bannon, Murak Kekic, Cris G dos Remedios, Brett D Hambly, Richmond W Jeremy, Circulation, 2016: 134: A20593
11. Abstract 15474: *Differential Proteoglycan expression contributed to the pathogenesis of heritable aortic aneurysm formation*; Morvarid Emami, Jasha W Trompf, Elizabeth N Robertson, Stefani S Portelli, Yaxin Lu, Sanaz Maleki, Craig McLachlan, Mural Kekic, Shishan Bao, Brett D Hambly, Richmond W Jeremy, Circulation, 2016; 134: A15474
12. *Haem-enzymes predictive of cardiovascular disease are present in thoracic and aortic aneurysm*, Andrew Sherrah, Michael Wilson, Shane Thomas, Enoch Chan, Amanda Yeung, Elizabeth Robertson,



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13. *Occurrence of double hit mutations in Marfan syndrome: Potential variable impact on phenotype*, Brett Hambly, Elizabeth Robertson, Stefanie Portelli, Yaxin Lu, Richmond Jeremy. International Clinical Cardiovascular Genetics, 2016

14. Abstract 3035: *Modelling of double hit mutations in Thoracic Aortic Aneurysm disease that have variable impact on Phenotype*, Brett D Hambly, Elizabeth Robertson, Stefanie S Portelli, Yaxin Lu, Murat Kekic, Richmond Jeremy, Biophysical Journal; 2016; 110(3) Supp 1: 614a-615a DOI: 10.1016/j.bpj.2015.11.3297

15. *Genetics of thoracic aortic aneurysm and dissection*, Elizabeth Robertson, Brett Hambly, Richmond Jeremy; Pathology; 2015 48, Supp 1, S23 DOI: 10.1016/j.pathol.2015.12.058

16. Abstract 18889: *Circulating microRNA Implicated in the TGF- $\beta$  Signalling Pathway are Altered in Marfan Syndrome*, E Robertson, Y Lu, A Sahagian, D Lai, M Kekic, B Hambly, R Jeremy, Circulation, 2015: 132:A18889

17. Abstract 9967: *Altered TGF- $\beta$  Signalling and Myofibroblast-like Cell Differentiation Contribute to Myxomatous Mitral Valve Disease*, A Sahagian, C Dilworth, E Robertson, Y Lu, M Kekic, S Maleki, B Bao, N Beijerink, B Hambly, Circulation, 2015; 132:A9967

18. Abstract 699: *Evidence for Altered post-transcriptional regulation of TGF- $\beta$  signalling in Marfan Syndrome*; E Robertson, Y Lu, M Kekic, B Hambly, R Jeremy, Heart, Lung and Circulation, 2015; Vol. 24, S401–S402

19. Abstract 674: *Potential role of multiple mutations altering thoracic aortic aneurysm formation*; E. Robertson, Y. Lu, M. Kekic, B. Hambly, R. Jeremy, Heart, Lung and Circulation, 2015; Vol. 24, S403–S404

20. Abstract 15097: *Altered TGF $\beta$  Signalling Effector Molecules Contribute to Bicuspid Aortic Valve-associated Thoracic Aortopathy*; Candice L Dilworth, Francesca Sadnick, Sari Padang, Yaxin Lu, Elizabeth N Robertson, Sanaz Maleki, Murat Kekic, Shisan Bao, Craig McLachlan, Richmond W Jeremy, Brett D Hambly, Circulation, 2014: 130:A15097

21. Abstract PT100: *Comparative Risk Of Recurrent Adverse Events In Marfan And Non-Marfan Aortopathy*, Richmond Jeremy, Elizabeth Robertson; Global Heart, 9 (1S) 2014; 189

22. Abstract PM303: *Gender Differences In Left Ventricular Hypertrophy In Response To Increased Body Weight*; Richmond Jeremy, Elizabeth Robertson; Global Heart, 9 (1S) 2014; 126

23. Abstract 10144: *Uncovering the Burden of Familial Thoracic Aortic Aneurysm Disease*; Elizabeth N Robertson and Richmond W Jeremy, Circulation. 2013;128:A10144

24. Abstract 10146: *Changes in Left Ventricular Geometry in a Normal Population Over Two Decades*; Elizabeth N Robertson, Richmond W Jeremy, Circulation. 2013;128:A10146

25. Abstract 545: *Inherited Non-syndromal Thoracic Aortic Aneurysm and Dissection (TAAD) – An Unrecognised Threat*; E. Robertson, R. Jeremy, Heart, Lung and Circulation (2013) Vol. 22 Supplement 1, Pages S230-S231

26. Abstract 519: *Mild Overweight is Associated with Progressive Increase in Left Ventricular Wall Thickness in a Normal Population*; E. Robertson, R. Jeremy; Heart, Lung and Circulation (2012) Vol.



### **Invited Book Reviews:**

- R1. Jeremy RW. "Positron Emission Tomography of the Heart. Bergmann SR and Sobel BE. 1992. Futura Publishing Co. Mount Kisco NY". Australasian Radiology, 1993.
- R2. Jeremy RW. "Cardiovascular Applications of Magnetic Resonance. Pohost GM. 1993. Futura Publishing Co. Mount Kisco NY". Aust. N.Z. J. Med. 1994.

### **Published Audiotape Lectures:**

- L1. Jeremy RW. Infarct Artery Patency and Changes in Left Ventricular Volume After Infarction. American Heart Association, 1990; Dallas, TX, USA.
- L2. Jeremy RW. Positron Emission Tomography. ACCEL Teaching Program. American College of Cardiology. 1995; Heart House, Washington DC. USA.
- L3. Jeremy RW. Myocardial Reperfusion Injury. ACCEL Teaching Program. American College of Cardiology. 1996; Heart House, Washington DC. USA.

## **Recent Invited Lectures:**

2012	Endothelium Conference, Centenary Institute "Endothelium and the Aorta"	Sydney NSW
2012	ASEANZ "Managing the Dilated Aorta"	Melbourne Victoria
2012	University of Washington, "Heritable Aortic Disease. Clinical Outcomes and Decision Making."	Seattle, WA USA
2012	Annual Scientific Meeting CSANZ "Marfan Syndrome and the Genetic Aortopathies"	
2014	World Congress of Cardiology "Physiology of the Coronary Microcirculation"	Melbourne Victoria
2014	World Congress of Cardiology "Genetics of Familial Aortic Disease"	Melbourne Victoria
2014	World Congress of Cardiology "Monitoring and Timing of Surgery in Thoracic Aortic Disease"	Melbourne Victoria
2015	European Society of Cardiovascular Surgery "When to Intervene in Aortic Dilatation"	Istanbul, Turkey
2015	Port Douglas Cardiology Meeting "Measuring and Managing the Dilated Aorta"	Port Douglas Queensland
2015	Structural Heart Disease Australia "Familial Aortic Disease"	Sydney NSW
2015	CMRI Workshop "MRI and the Aorta"	Sydney NSW
2016	CMRI Workshop "MR Imaging and Aortic Disease – Case Studies"	Sydney NSW
2016	Cardiac Society of Australia and New Zealand Annual Meeting "Angiotensin Receptors and Marfan Syndrome"	
2017	CSANZ Annual Scientific Meeting "Future Developments in Continuing Professional Development"	

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| 2018 | International Clinical Cardiovascular Genetics Conference<br>"Medical Management of Genetic Aortic Disease"      | Brisbane Queensland       |
| 2018 | Structural Heart Disease Australia – Aortic Valve Symposium<br>"Genotypes in the Aorta and Aortic Valve Disease" | Sydney NSW                |
| 2018 | Port Douglas Cardiology Meeting<br>"Prevention and Management of Acute Aortic Syndromes"                         | Port Douglas, Queensland  |
| 2018 | Montalcino Aortic Consortium Meeting<br>"Patterns of Aortic Growth in Non-Syndromal Genetic Aortopathy"          | Amsterdam, Netherlands    |
| 2018 | Cardiology Directors Meeting<br>"New Developments in Continuing Professional Development"                        | Melbourne Victoria        |
| 2019 | Australian Association of Cardiothoracic Surgeons<br>"Aortic Genetics for the Cardiac Surgeon"                   | Melbourne Victoria        |
| 2019 | Royal Prince Alfred Hospital Grand Rounds<br>"The Marfan and Aortic Disease Service"                             | Sydney, New South Wales   |
| 2019 | Marfan Meeting<br>"Update on Marfan Syndrome and Genetic Aortopathy"   | Brisbane Queensland       |
| 2019 | Marfan Meeting<br>"Contemporary "real-world" Medical Management  | Brisbane Queensland       |
| 2019 | Cardiac Society of Australia and New Zealand<br>"Genetic Disease of the Aorta"                                   | Adelaide, South Australia |
| 2019 | CMRI Teaching Conference<br>"Advances in MR Imaging of the Aorta"  | Sydney, New South Wales   |

## Research Grants

2017 – NHMRC 1130610 – “Beyond the Tape Measure - Measuring the impact of abnormal flow dynamics on dilation of the ascending aorta.

\$723,771

CI – Stuart Grieve, Richmond Jeremy, Paul Bannon

2019 – NHMRC -1158997 - “Targeting Tet2 to treat thoracic aortic aneurysms”

\$1,146,876

CI - Renjing Liu, Richmond Jeremy, Paul Bannon, Brett Hambly