

CURRICULUM VITAE

Part 1: General Information

Name: Yishay Orr, MD PhD FRACS

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Education

Undergraduate Medical School:

02/1993 – 02/1999 MBBS, BSc (Med) Honours Class I
University of New South Wales
Sydney, New South Wales, Australia

Graduate Medical School:

02/2003 – 06/2008 Doctor of Philosophy
University of New South Wales School of Medical Sciences
Sydney, Australia
Thesis Title: *"Circulating neutrophil activation and recruitment during the systemic inflammatory response to cardiac surgery with extracorporeal circulation"*
Supervisor: Professor Leonard Kritharides

Postgraduate Training

02/1999 – 02/2001 Internship
Liverpool Hospital, Sydney
New South Wales, Australia

02/2001 – 07/2002 Cardiothoracic and General Surgery, non-training residency
Liverpool Hospital, Sydney
New South Wales, Australia

07/2002 – 02/2003 Cardiothoracic Surgery, non-training residency
Royal Prince Alfred Hospital, Sydney
New South Wales, Australia

02/2006 – 07/2006 General Surgery Residency
Liverpool Hospital, Sydney
New South Wales, Australia

07/2006 – 02/2007 Vascular Surgery Residency
Wollongong Hospital, Wollongong
New South Wales, Australia

02/2007 – 02/2009 Cardiothoracic Surgery Residency
Royal Australasian College of Surgeons
Royal Perth Hospital
Perth, Western Australia

02/2009 – 01/2011 Cardiothoracic Surgery Residency
Royal Australasian College of Surgeons
St. Vincent's Hospital, Sydney
New South Wales, Australia

01/2011 – 12/2012 Postgraduate Fellow in Paediatric Cardiac Surgery
The Children's Hospital at Westmead, Sydney
New South Wales, Australia

01/2013 – 01/2014 Faculty Instructor
Congenital Heart Surgery
Texas Children's Hospital

Houston, Texas, USA

Licensure and Certification

- Australian Health Practitioner Regulation Agency
General and Specialist (Cardiothoracic) Registration
Registration number MED0001184233
Commencing Feb 1999 ongoing (annual renewal)
- Texas Medical Board licenses
 - 01/2013 – 12/2013 44126 Visiting Professor Temporary License
 - 01/2014 – 12/2014 44450 Visiting Professor Temporary License
 - 07/2023 – 07/2024 47994 Faculty Temporary License
 - 07/2024 – 07/2025 48303 Faculty Temporary License
 - 07/2025 – 07/2026 48739 Faculty Temporary License
- Tennessee Medical Board license
 - 07/2025 – 12/2026 74483 Medical License
- Fellowship of the Royal Australasian College of Surgeons
 - Specialty: Cardiothoracic Surgery
RACS ID 142994
Awarded 21st Jan 2011; active and ongoing

Academic Appointments

02/2022 – 07/2023 Clinical Associate Professor, Sydney Medical School
The University of Sydney, Sydney, New South Wales, Australia

08/2023 – 08/2025 Associate Professor in Congenital Heart Surgery
Baylor College of Medicine, Houston, Texas, USA

08/2025 – Associate Professor, Vanderbilt University School of Medicine
Department of Cardiac Surgery
Division of Pediatric Cardiac Surgery
Vanderbilt University, Nashville, Tennessee, USA

Hospital Appointments

01/2011 – 12/2012 Cardiothoracic Transplant Surgeon
St. Vincent's Hospital, Sydney
New South Wales, Australia

03/2014 – 07/2023 Paediatric Cardiac Surgeon
The Children's Hospital at Westmead
Sydney Children's Hospital Network
New South Wales, Australia

02/2014 – 07/2023 Cardiothoracic Surgeon (Adult)
Westmead Hospital, Sydney
New South Wales, Australia

02/2014 – 07/2023 Adult and Congenital Cardiothoracic Surgeon
Westmead Private Hospital, Sydney
New South Wales, Australia

07/2020 – 07/2023 Deputy Head of Department of Pediatric Cardiac Surgery
The Children's Hospital at Westmead
Sydney, New South Wales, Australia

08/2023 – 08/2025 Associate Congenital Heart Surgeon
Texas Children's Hospital
Houston, Texas, USA

Professional Organizations

01/2015 – present Member of World Society for Pediatric and Congenital Heart Surgery

11/2015 – present Member of the International Society for Heart and Lung
Transplantation

06/2016 – present	Member of the Australian & New Zealand Society of Cardiac and Thoracic Surgeons
05/2020 – 12/2023	Member of the Australian National Standards of Care for Childhood-onset Heart Disease Advisory Group
02/2021 – present	Member of Transplantation Society of Australia and New Zealand
01/2023 – present	Member of the Society of Thoracic Surgeons
02/2024 – present	American Academy of Pediatrics, Fellow

Professional Activities:

Intramural

Surgical lead for development and authorship of Clinical Models of Care for:

- Pediatric Heart Transplantation (2021)
- Slide tracheoplasty (2022)

The Children’s Hospital at Westmead, Sydney Children’s Hospitals Network, Sydney NSW Australia

- Surgical Director Coronary Artery Anomalies Program, Texas Children’s Hospital, Houston, TX (Jan 2024 – July 2025)
- Surgical Director Anomalous Coronary Artery Program, Monroe Carrel Jr Children’s Hospital at Vanderbilt, Nashville, TN (Aug 2025 – present)
- Surgical Director Single Ventricle Program, Monroe Carrel Jr Children’s Hospital at Vanderbilt, Nashville, TN (Aug 2025 – present)

Extramural

Editorial Contributions:

07/2022 – World Journal for Pediatric and Congenital Heart Surgery
Editorial Board Member

Ad hoc reviewer for

- World Journal for Pediatric and Congenital Heart Surgery
- Annals of Thoracic Surgery

Other professional activities

Special awards or recognition for professional activities:

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| 12/1996 | The Sugerman Prize in Clinical Pathology
1 st ranking in undergraduate Pathology
University of New South Wales, School of Medical Sciences
New South Wales, Australia |
| 12/1998 | The Combined Teaching Hospital Senior Staff Prize
Best performance in final year – Integrated Clinical Examination
University of New South Wales, School of Medicinal Sciences
New South Wales, Australia |
| 12/1999 | Intern of the Year
Resident Medical Officer Association Liverpool Hospital, Sydney |
| 2003 | Peter King Foundation Research Scholarship
Royal Australasian College of Surgeons |
| 2004 | Australasian Society of Cardiothoracic Surgeons Research Foundation Grant |
| 05/2004 | Sir Roy McCaughey Surgical Research Scholarship
Royal Australasian College of Surgeon |
| 05/2004 | National Health & Medical Research Council Medical and Dental Scholarship |
| 10/2005 | Research Day Merck Sharp & Dohme Poster Award
Poster title: <i>Heparin selectively inhibits CD11b high affinity neo-epitope expression in vivo during coronary artery bypass surgery</i>
Orr Y, Taylor JM, Bannon PG, Geczy C, Kritharides L. |
| 06/2008 | Paper of the Month: Manuscript title: <i>Conformational activation of CD11b without shedding of L-selectin on circulating human neutrophils</i> , Orr Y, Cartland S, Taylor JM, Bannon PG, Geczy C, Kritharides L.
University of New South Wales, School of Medical Sciences |
| 06/2008 | Ralph Reader Clinical Prize – top ranking scientific research presentation |

- 06/2008 Cardiac Society of Australia & New Zealand
PhD Prize for top-ranking Doctor of Philosophy Thesis
University of New South Wales, School of Medical Sciences
- 03/2008 Edwards Lifesciences Traveling Scholarship
- 03/2008 St. Jude Award for Outstanding Presentation at Annual Cardiothoracic
Training Sessions
Royal Australasian College of Surgeons
- 04/2011 New South Wales Doctor-in-Training of the Year Award
Australian Medical Association
- 12/2020 Junior Medical Officer Clinical Teaching Award
The Children's Hospital at Westmead

Voluntary Health Organization Participation

Participation in Humanitarian Cardiac Surgery Organizations:

- **Open Heart International** (<https://ohi.org.au>) 2011 – 2020
Cardiac surgery mission trips to Fiji, Tanzania, Rwanda, Cambodia, Myanmar, Papua New Guinea and India
- **Healing Little Hearts** (<https://healinglittlehearts.org>) 2019 – 2021
Cardiac surgery mission trips to India
- **TCH International program** partnered with **Children's HeartLink**
09/2023 – 07/2025
Surgical lead for partnership with Real Hospital Português de Beneficência, Recife, Pernambuco, Brazil

Voluntary Professional Organization Contributions

- 07/2020 – 12/2023 Oceania Member of Governing Council
World Society for Pediatric and Congenital Heart Surgery
- 02/2020 – 12/2021 Member of NSW Paediatric Cardiac Services Model of Care
Panel tasked with producing/authoring NSW Paediatric
Cardiac Services Model of Care
- 07/2020 – present Member of the Curriculum Committee
World University of Pediatric and Congenital Heart Surgery
- 02/2021 – 06/2023 Member of Australian National Standards of Care for
Childhood-onset Heart Disease Project participating in
"Cardiac Surgery" and "Large Centres" Working Groups;
Deputy Chair of Working Group for Large Centres

Part II: Research, Teaching, Clinical and Leadership Contributions

Teaching Activities

Clinical Teaching

- Clinical Fellow Training at The Children's Hospital at Westmead (Jan 2014 – Jul 2023)
Training of multiple overseas clinical cardiac surgery fellows:
Indian fellows trained include: Ashish Katewa, Sabari Menon, Abhijeet Naik, Supreet Marathe, Balram Rajanbabu, Karthik Ramakrishnan, Mahendra Narwalha, Gopinath Perumal, Biswa Panda, Divya Mallikarjun, Gauri Datar, Nikunj Vaidhya, Gananjay Salve, Nayem Raja, Vishal Agrawal
Japanese Fellows trained: Shinya Ugaki
Pakistani Fellow trained: Hasnain Gondal
- Faculty Instructor Teaching/training at Texas Children's Hospital (Aug 2023 – Jul 2025)
Overseas Instructors trained include: Catherine Deshaies, Rick Tang, Hidenori Hayashi, Shuta Ishigami, Harsh Seth

Educational Leadership Roles

- 02/2015 – 07/2023 Supervisor of Surgical Education and Training (Cardiothoracic
Surgery) for the Royal Australasian College of Surgeons at The
Children's Hospital at Westmead including:
6-monthly Performance Assessments/Appraisal
Mentoring
One Trainee per year

- Trainees supervised: Nikki Stamp, Akshat Saxena, Jordan Ross, Ben Dunne, Dushan Bandarra, Fabio Ramponi, Ying Zhu, Michael Seco, Mathew Doyle
- 02/2019 – 07/2023 Director of weekly cardiothoracic surgical teaching sessions at The Children's Hospital at Westmead, Sydney Children's Hospitals Network, Sydney NSW Australia
- 05/2021 – 12/2023 Examiner for Cardiothoracic Surgery Fellowship Examinations for the Royal Australasian College of Surgeons
- 12/2023 – 07/2025 Chair of Core Curriculum Teaching sessions at Texas Children's Hospital, Houston TX supervising and facilitating teaching of TSDA Congenital curriculum to ACGME fellow & faculty instructors

Research Supervision

- Medical Student Mentoring
01/2015 – 11/2015 Supervisor of University of NSW Independent Learning Project medical student research project: Twenty-Five Year Outcomes of Biventricular Repair of Complete Atrioventricular Canal Defects: An Australian Experience. Medical student: Raviteja Kannekanti; successful completion
12/2016 – 11/2017 Supervisor of University of NSW Independent Learning Project medical student research project: Long-term outcomes for infants and neonates undergoing mitral valve replacement in NSW. Medical student: Katie Mater; successful completion
- Graduate Student Training
02/2016 – 08/2020 Supervisor of PhD by research thesis in Discipline of Child and Adolescent Health, Faculty of Health and Medicine, The University of Sydney, Sydney, Australia. Candidate Laura S Fong, MD successfully awarded Doctor of Philosophy degree – 10/2020
02/2022 – 12/2024 Supervisor of Masters of Surgery in Discipline of Child and Adolescent Health, Faculty of Health and Medicine, The University of Sydney, Sydney, Australia. Candidate Linna Huang, MD successfully awarded Masters of Surgery degree and concurrently prize for best dissertation of semester
- Research Fellow Supervision
02/2023 – present Supervisor of Congenital Heart Surgery research fellow at Baylor College of Medicine/Texas Children's Hospital – Santiago Villar Cantoral. Ongoing research collaboration

Part III: Bibliography

Articles in Refereed Journals

1. Orr Y, Taylor JM, Bannon PG, Geczy C, Kritharides L. Circulating CD10-/CD16low Neutrophils provide a quantitative index of active bone marrow neutrophil release. *British Journal of Haematology* 2005; 131(4): 508-519.
2. Orr Y, Wilson DP, Taylor JM, Bannon PG, Geczy C, Davenport MP, Kritharides L. A kinetic model of bone marrow neutrophil production which characterizes late phenotypic maturation. *Am J Physiol Regul Integr Comp Physiol* 2007; Apr; 292(4): R1707-16; first published 200 Dec 21; [Epub ahead of print]
3. Orr Y, Cartland S, Taylor JM, Bannon PG, Geczy C, Kritharides L. Conformational activation of CD11b without shedding of L-selectin on circulating human neutrophils. *Journal of Leukocyte Biology* Nov 2007; 82(5): 1115-25; first published 2007 Aug 3; [Epub ahead of print]
4. Orr Y, Leclair K, Jacobe S, Badawi N, Nicholson IA, Chard RB, Sholler GF, Winlaw DS. Early outcomes from a new regional programme for the surgical management of hypoplastic left heart syndrome. *Australia and NZ Journal of Surgery* 2015 Jun; 85(6): 466-71. doi: 10.1111/ans.12103. Epub 2013 Feb 19.
5. Watson AJ, Gao L, Sun L, Tsun J, Doyle A, Faddy SC, Jabbour A, Orr Y, Dhital K, Hicks M, Jansz PC, Macdonald PS. Enhanced Preservation of Pig Cardiac Allografts by Combining Erythropoietin with Glyceryl Trinitrate and Zoniporide. *American Journal of Transplantation* 2013 Jul;13(7):1676- 87. doi: 10.1111/ajt.12249. Epub 2013 May 13.

6. Orr Y, Jeewa A, McGarry M, McKenzie ED, Adachi I. Upsizing of a Berlin Heart Excor® paediatric LVAD to achieve adequate flow requirement. *Journal of Heart and Lung Transplantation* 2013 Aug; 32(8): 845-6. doi: 10.1016/j.healun.2013.05.008. Epub 2013 May 31.
7. Shah KB, Kwakkel-van Erp JM, Migliore C, Orr Y, Corris PA, Glanville AR, Slaughter MS, West LJ, Mehra MR. Scientific progress in heart and lung failure, mechanical circulatory support, and transplantation: Highlights from the *Journal of Heart and Lung Transplantation*. *Journal of Heart and Lung Transplantation* 2014 Mar; 33(3): 223-8. doi: 10.1016/j.healun.2013.11.011. Epub 2013 Dec 4.
8. Orr Y, Chard RB. Tailored strategies for staged management of complex congenital cardiac lesions. *Annals of Thoracic Surgery* 2014 April; 97(4): 1436–8. doi:10.1016/j.athoracsur.2013.06.108.
9. Orr Y. Overview of Paediatric Heart-Lung Transplantation: A global perspective. *Journal of Thoracic Disease* 2014 Aug; 6(8): 1159-63. doi: 10.3978/j.issn.2072-1439.2014.07.25
10. Guzman-Pruneda FA, Orr Y, Trost JG, Zhang W, Das S, Melicoff E, Maddox J, Nugent M, Mery CM, Adachi I, Schecter MG, Mallory GB, Morales DL, Heinle JS, McKenzie ED. Bronchial Artery Revascularization and En Bloc Lung Transplant in Children. *Journal of Heart and Lung Transplantation*. 2016 Jan; 35(1): 122-9. doi: 10.1016/j.healun.2015.08.010.
11. Fonoudi H, Ansari H, Abbasalizadeh S, Larijani MR, Kiani S, Hashemizadeh S, Zarchi AS, Bosman A, Blue GM, Pahlavan S, Perry M, Orr Y, Mayorchak Y, Vandenberg J, Talkhabi M, Winlaw DS, Harvey RP, Aghdami N, Baharvand H. A Universal and Robust Integrated Platform for the Scalable Production of Human Cardiomyocytes From Pluripotent Stem Cells. *Stem Cells Translational Medicine*. 2015 Dec;4(12):1482-94. doi: 10.5966/sctm.2014-0275.
12. Davies RA, Bandara TD, Perera NK, Orr Y. Do rapid deployment aortic valves improve outcomes compared with surgical aortic valve replacement? *Interactive Cardiovascular and Thoracic Surgery*. 2016 Nov;23(5):814-820.
13. Qian P, Orr Y, Davis L. An Unusual Cause of Localised ST Elevation following Insertion of a Permanent Pacemaker. *Heart, Lung and Circulation* 2016 Oct;25(10):e140-2. doi:10.1016/j.hlc.2016.02.017.
14. Brown K, Dunne B, Festa M, La Hei E, Karpelowsky J, Dando H and Orr Y. Successful 2,000-Kilometer International Transfer of an Infant Receiving Extracorporeal Membrane Oxygenation for Severe Respiratory Failure. *Annals of Thoracic Surgery* 2016; 102(2): e1313. <http://dx.doi.org/10.1016/j.athoracsur.2016.01.037>.
15. Davies RA, Perera NK, Orr Y. Do novel anticoagulant agents increase the risk of perioperative complications during implantable cardiac rhythm device insertion? *Interactive Cardiovascular and Thoracic Surgery*. 2017 Jan; 24(1): 126-128. doi: 10.1093/icvts/ivw282.
16. Gnanappa GK, Laohachai K, Orr Y, Ayer J. Isolated Anomalous Origin of Left Pulmonary Artery From the Descending Aorta: An Embryologic Ambiguity. *Annals of Thoracic Surgery*. 2016 Nov; 102(5): e439-e441. doi: 10.1016/j.athoracsur.2016.04.089.
17. Marathe SP, Jones MI, Ayer J, Sun J, Orr Y, Verrall C, Nicholson IA, Chard RB, Sholler GF, Winlaw DS. Congenitally corrected transposition: complex anatomic repair or Fontan pathway? *Asian Cardiovascular and Thoracic Annals*. 2017 Jul; 25(6): 432-439. doi: 10.1177/0218492317717412. Epub 2017 Jun 13.
18. Luxford JC, Arora N, Ayer JG, Verrall CE, Cole AD, Orr Y, d'Udekem Y, Sholler GF, Winlaw DS. Neonatal Ebstein Anomaly: A 30-year Institutional Review. *Seminars in Thoracic and Cardiovascular Surgery*. 2017 Summer; 29(2): 206-212. doi: 10.1053/j.semctvs.2017.01.012. Epub 2017 Feb 22.
19. Marathe SP, Naganur SH, Menon S, Orr Y, Cooper SG, Winlaw DS. An Unusual Combination of Truncus Arteriosus, Interrupted Aortic Arch, and Hypoplastic Left Ventricle. *World Journal of Pediatric and Congenital Heart Surgery*. 2017 Jan 1:2150135117716886. doi:10.1177/2150135117716886.
20. Fong LS, Winlaw DS, Orr Y. Is the modified single-patch repair superior to the double-patch repair of complete atrioventricular septal defects? *Interactive Cardiovascular and Thoracic Surgery*. 2019 Mar 1; 28(3): 427-431. doi: 10.1093/icvts/ivy261.
21. Krishna MR, Marathe SP, Maghsoudi A, McCowage G, Sherwood MC, Orr Y. Emergency Ross Procedure for Pediatric Aortic Valve Myxofibrosarcoma. *Annals of Thoracic Surgery*. 2019 Mar;107(3): e183-e185. doi: 10.1016/j.athoracsur.2018.07.060. Epub 2018 Sep 25.
22. Mater K, Ayer J, Nicholson I, Winlaw D, Chard R, Orr Y. Patient-Specific Approach to Mitral Valve Replacement in Infants Weighing 10 kilograms or less. *World Journal of Pediatric and Congenital Heart Surgery*. 2019 May;10(3):304-312. doi: 10.1177/2150135119837200.

23. Fong LS, Betts K, Kannekanti R, Ayer J, Winlaw DS, Orr Y. Modified-Single Patch vs Double Patch Repair of Complete Atrioventricular Septal Defects. *Seminars in Thoracic and Cardiovascular Surgery*. 2020 Spring; 32(1): 108-116. doi:10.1053/j.semtcvs.2019.07.004. Epub 2019 Jul 12.
24. Salve GG, Datar GM, Perumal G, Singh AAV, Ayer JG, Roberts P, Sholler GF, Cole AD, Pigott N, Loughran-Fowlds A, Weatherall A, Alahakoon TI, Orr Y, Nicholson IA, Winlaw DS. Impact of High-Risk Characteristics in Hypoplastic Left Heart Syndrome. *World Journal of Pediatric and Congenital Heart Surgery*. 2019 Jul;10(4):475-484. doi: 10.1177/2150135119852319.
25. Verrall CE, Walker K, Loughran-Fowlds A, Prelog K, Goetti R, Troedson C, Ayer J, Egan J, Halliday R, Orr Y, Sholler GF, Badawi N, Winlaw DS. Contemporary incidence of stroke (focal infarct and/or haemorrhage) determined by neuroimaging and neurodevelopmental disability at 12 months of age in neonates undergoing cardiac surgery utilizing cardiopulmonary bypass. *Interactive Cardiovascular and Thoracic Surgery*. 2018 Apr 1;26(4):644-650. doi:10.1093/icvts/ivx375.
26. Fong LS, Betts K, Bell D, Konstantinov IE, Nicholson IA, Winlaw DS, Orr Y; Australian CAVSD Study Group. Complete atrioventricular septal defect repair in Australia: Results over 25 years. *Journal of Thoracic and Cardiovascular Surgery*. 2020 Mar; 159(3): 1014-1025.e8. doi: 10.1016/j.jtcvs.2019.08.005. Epub 2019 Aug 30
27. Salve GG, Datar GM, Perumal G, Singh AAV, Ayer JG, Roberts P, Sholler GF, Cole AD, Pigott N, Loughran-Fowlds A, Weatherall A, Alahakoon TI, Orr Y, Nicholson IA, Winlaw DS. Impact of High- Risk Characteristics in Hypoplastic Left Heart Syndrome. *World Journal of Pediatric and Congenital Heart Surgery*. 2019 Jul;10(4):475-484. doi: 10.1177/2150135119852319
28. Krishna MR, Gnanappa GK, Mervis J, Forsey J, Ayer JG, Orr Y. Double drainage of total anomalous pulmonary venous connection: A rare variant of mixed total anomalous pulmonary venous connection. *Annals of Pediatric Cardiology*. 2020 Jan-Mar; 13(1):100-101. doi:10.4103/apc.APC_45_19.
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31. Barua S, Phua B, Orr Y, Skinner M. Bulky granulomatous disease resulting in constrictive tuberculous pericarditis requiring pericardiectomy: a case report. *European Heart Journal: Case Reports*. 2020 Sep 27;4(5):1-6. doi: 10.1093/ehjcr/ytaa208.
32. Saxena A, Salve GG, Betts K, Arora N, Cole AD, Sholler GF, Orr Y, Ayer JG, Winlaw DS. Outcomes Following Heterotopic Placement of Right Ventricle to Pulmonary Artery Conduits. *World Journal of Pediatric and Congenital Heart Surgery*. 2021 Mar;12(2):220-229. doi:10.1177/2150135120975769.
33. Fong LS, Betts K, Ayer J, Andrews D, Nicholson IA, Winlaw DS, Orr Y; Australian CAVSD study group. Predictors of reoperation and mortality after complete atrioventricular septal defect repair. *European Journal of Cardiothoracic Surgery*. 2021 Dec 27;61(1):45-53. doi: 10.1093/ejcts/ezab221.
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35. Salve GG, Cole AD, Nicholson IA, Winlaw DS, Chard RB, Orr Y. Modified pulmonary artery banding: A novel strategy for balancing pulmonary blood flow with transposed great arteries. *Journal of Thoracic and Cardiovascular Surgery Techniques*. 2021 Jun 2: 9: 111-120. doi: 10.1016/j.jtc.2021.05.021. eCollection 2021 Oct
36. Luxford JC, Ayer JG, Betts K, Salve GG, Orr Y, Chard RB, Roberts P, Sholler GF, Winlaw DS. The Ross/Ross-Konno procedure in infancy is a safe and durable solution for aortic stenosis. *Journal of Thoracic and Cardiovascular Surgery*. 2021 Sep 8;S0022-5223(21)01281-2. doi:10.1016/j.jtcvs.2021.06.066. Epub 2021 Sep 8.

37. Singh AA, Gnanappa GK, [Orr Y](#), Winlaw DS, Adams P, Sholler GF, Ayer JG. Rapidly Enlarging Aortic Root Pseudoaneurysm in a Child with Endocarditis and Repaired Congenital Heart Disease. *JACC Case Reports*. 2021 Nov 3; 3(15): 1716-1718. doi: 10.1016/j.jaccas.2021.07.014. eCollection 2021 Nov 3.
38. Fong LS, Youssef D, Ayer J, Nicholson IA, Winlaw DS, [Orr Y](#). Correlation of ventricular septal defect height and outcomes after complete atrioventricular septal defect repair. *Interactive Cardiovascular and Thoracic Surgery*. 2022 Feb 21; 34(3): 431-437. doi: 10.1093/icvts/ivab263
39. Salve GG, Edington AK, Vijayaraghavan A, Betts KS, Ayer JG, Ramakrishnan K, Winlaw DS, [Orr Y](#), Nicholson IA. Technique of Coronary Button Transfer Has no Impact on Neo-aortic Root Size in Simple Transposition. *Seminars in Thoracic and Cardiovascular Surgery*. 2022 May 15; S1043-0679(22)00117-4. doi: 10.1053/j.semtcvs.2022.04.007.
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46. [Orr Y](#). Invited Commentary: What Is the Significance of the Konno Incision in Pediatric Ross Procedures? *World J Pediatr Congenit Heart Surg*. 2024 Jul;15(4):419-420. doi: 10.1177/21501351241240769
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52. Villar S, Wu TT, Doan TT, Cho J, Wadhwa L, Clunie SK, Heinle JS, Orr Y. Thirty years of left atrioventricular valve reoperations following atrioventricular septal defect repair: Impact of valvar stenosis. *J Thorac Cardiovasc Surg.* 2025 Jun 30: S0022-5223(25)00545-8. doi: 10.1016/j.jtcvs.2025.06.025.
53. Villar S & Orr Y. Reply to Letter to the Editor "Reply: Nature vs Suture – Distinct Pathophysiology for LAVV Stenosis Following AVSD Repair?" *JTVCS* in press Aug 2025

Books and Chapters

- Chapter 34: Atrioventricular Septal Defect in *Kirklin/Barratt-Boyes Cardiac Surgery, 5th edition*
 Edited by Drs. James K. Kirklin, Eugene Blackstone, Francis Pagani, Christo Tchervenkov, and Hartzell V. Schaff
 Co-authored with David Overman, MD; final draft submitted June 2024
- Chapter 49: Double outlet right ventricle in *Moss and Adams Pediatric Cardiology 11th edition*
 Co-authored with Emily Lawrence, MD and Manish Bansal, MD; final draft submitted Dec 2024

Presentations and Abstracts

Peer reviewed non-invited poster presentations

International

1. The XXth Congress of the International Society on Thrombosis and Haemostasis. Sydney, Australia. P1146, Vascular Biology; Adhesion Receptors. *Heparin selectively inhibits CD11b high affinity neo-epitope expression in vivo during coronary artery bypass surgery.* Orr Y, Taylor JM, Bannon PG, Geczy C, Kritharides L August 2005 *Journal of Thrombosis and Haemostasis* 2005; Vol 3, Suppl. 1: P1146:
2. 7th World Congress on Inflammation: Inflammation 2005, the Key to Much Pathology. Melbourne, Australia.
 - a. Monocyte chemokine release during the acute inflammatory response to coronary artery bypass surgery. Orr Y, Taylor JM, Bannon PG, Geczy C, Kritharides L. August 2005. Published in *Inflammation Research* Aug 2005; 54 (Suppl. 2): S152.
 - b. Bone marrow neutrophil mobilization in response to re-warming and reperfusion following cardiac surgery. Orr Y, Taylor JM, Bannon PG, Geczy C, Kritharides L August 2005. Published in *Inflammation Research* Aug 2005; 54 (Suppl. 2): S131.
3. 5th World Congress of Paediatric Cardiology and Cardiac Surgery Cairns, QLD, Australia. Right ventricular outflow tract reconstruction using the Freestyle porcine aortic root stentless bioprosthesis in adult and paediatric patients. Orr Y, Bullock A, Andrews DR. June 2009
4. International Society for Heart and Lung Transplantation, Prague, Czech Republic. 100% 3-Year survival after extracorporeal membrane oxygenation (ECMO) bridge to lung transplantation. Connellan M, Orr Y, Pye R, Granger E, Dhital K, Soto C, Malouf MA, Spratt P, Glanville AR & Jansz P. April 2012
5. International Society for Heart and Lung Transplantation, San Diego, California, USA. Technique for Pediatric En Bloc Lung Transplantation with Bronchial Artery Revascularization. Orr Y, Mery C, Adachi I, Heinle JS & McKenzie ED, April 2014
6. International Society for Heart and Lung Transplantation, San Diego, California, USA. Outcome of Pediatric Heart Transplantation Has Continued to Improve Over the Last Three Decades: Impact of Mechanical Circulatory Support. Adachi I, Guzman-Pruneda F, Heinle JS, McKenzie ED, Mery CM, Orr Y, Jeewa A, Cabrera AG, Price JF, Denfield SW, Dreyer WJ, Fraser CD April 2014
7. International Society for Heart and Lung Transplantation, San Diego, California, USA. Awake Extracorporeal Membrane Oxygenation as a Bridge to Lung Transplant in a Toddler. A Case Report. Gazzaneo MC, Portillo E, Mallory G, Orr Y, Heinle JS, McKenzie ED, Nugent M April 2014

National

1. Annual Scientific meeting of the Australasian Society of Cardiothoracic Surgeons, Noosa, Queensland, Australia: Transthoracic Impedance and Cardiac Surgery: the implications for defibrillation. Orr Y, Penney D, Bannon P and Parr M. October 2002
2. Annual Scientific meeting of the Australasian Society of Cardiothoracic Surgeons, Noosa, Queensland, Australia: Bone marrow neutrophil release in response to cardiothoracic surgical trauma in humans. Orr Y, Taylor JM, Bannon PG, Geczy C, Kritharides L October 2002
3. Surgical Research Society of the Royal Australasian College of Surgeons Annual Scientific Meeting, Melbourne, Australia: Re-evaluation of the extent of neutrophil activation associated with cardiac surgery. Orr Y, Taylor JM, Bannon PG, Geczy C, Kritharides L May 2006
4. National Heart Foundation Annual Scientific Meeting. Neutrophil activation and recruitment from the bone marrow are differentially regulated by operative stimuli during extracorporeal circulation. Orr Y, Taylor JM, Bannon PG, Geczy C, Kritharides L March 2006
5. Cardiac Society of Australia and New Zealand (CSANZ) Annual Scientific Meeting. Cardiac surgery abbreviates post-mitotic maturation of neutrophils during stimulation of bone marrow neutrophil release. Orr Y, Wilson DP, Taylor JM, Bannon PG, Geczy C, Davenport MP, Kritharides L August 2006
6. Annual Scientific meeting of the Australasian Society of Cardiothoracic Surgeons, Cairns, Queensland, Australia: Differential systemic chemokine release distinguishes the acute inflammatory response to coronary artery bypass surgery. Orr Y, Taylor JM, Bannon PG, Geczy C, Kritharides L October 2007

Peer reviewed non-invited oral presentations

National

1. Finalist in Ralph Reader Prize Clinical Category; Cardiac Society of Australia and New Zealand (CSANZ) Annual Scientific Meeting, Canberra, Australian Capital Territory, Australia: Conformational activation of neutrophil CD11b without L-selectin shedding – a novel proadhesive neutrophil phenotype identified during coronary artery bypass surgery. Orr Y, Taylor JM, Bannon PG, Geczy C, Kritharides L August 2006

Invited peer-reviewed oral presentations

International

1. International Society for Heart and Lung Transplantation (ISHLT) Montreal, Canada April 2013: “The year in a capsule: JHLT at ISHLT: Highlights of issues related to children” Orr Y

National

1. Perfusion Downunder Uluru, Northern Territory AUSTRALIA: “ECMO and VAD: A bridge to transplantation” Orr Y October 2012
2. Cardiac Society of Australia and New Zealand Melbourne, Victoria AUSTRALIA: “The NSW Paediatric Heartware experience” Orr Y August 2015
3. Australian College of Neonatal Nurses 26th National Conference, Launceston, Tasmania AUSTRALIA
 “Advances in Neonatal Cardiac Surgery” Orr Y August 2018
 “Outreach Paediatric Cardiac Surgery” Orr Y August 2018
4. Cardiac Society of Australia and New Zealand AUSTRALIA (virtual meeting): “Paediatric Heart Transplantation in the Covid era in NSW: A novel centre experience” Orr Y August 2021
5. Royal Australasian College of Surgeons Annual Scientific Meeting, Brisbane, Queensland, AUSTRALIA: “Congenital Aortic Root: Challenges and options” Orr Y May 2022
6. Cardiac Society of Australia and New Zealand Gold Coast, Queensland, AUSTRALIA: “Surgical management of ccTGA with IVS: when should anatomic repair be considered?” Orr Y August 2022
7. American Academy of Pediatrics Annual Meeting Orlando, Florida, USA. Section on Cardiology and Cardiac Surgery Program. “Coronary Artery Re-implantation Surgeries: Strategies, Updates and the Future” Orr Y 29th September 2024

8. 6th Symposium on Coronary Artery Anomalies Houston, Texas, USA. Debate: All Interarterial L-AAOCA Should Undergo Surgery – Pro Orr Y 6th December 2024
9. 6th Symposium on Coronary Artery Anomalies Houston, Texas, USA. Surgical Techniques in Intraseptal AAOCA Orr Y 7th December 2024
10. Tennessee Chapter of the American College of Cardiology Annual State Meeting 2025, Nashville, TN, USA. Coronary Artery Anomalies Orr Y 15th November 2025