

# Infective Endocarditis Symposium



## 12th October 2024

Brisbane Queensland, Australia



**THE COMMON GOOD**  
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Queensland  
Government



# 2024 Infective Endocarditis Symposium

## Program



Time	Presentation	Speakers
0830 - 0845	Registration	
0845 – 0850	Welcome and Housekeeping	ACE Committee
0850 - 0905	Welcome to Country	Uncle Billy Cummings
0905 - 0910	Introduction to ieQ and ACE	ACE Committee
0910 – 0920	Evolution of Diagnostic Criteria for IE over 60 years	David Durack
0920 – 0940	Diagnosis of Infective Endocarditis	Robin Patel
0940 – 1000	Staphylococcus lugdunensis: an aggressive agent of infective endocarditis	Cristiane Lamas
1000 – 1020	18FDG PET-CT scanning in endocarditis – echoes of the future?	Dylan Bartholomeusz
1020 – 1040	Role of Lead Extraction in management of device related infections	Russell Denman
1040 – 1100	Morning Tea – Poster Judging	
1100 – 1130	ACE Registry and discussion	ACE Committee
1130 – 1140	A retrospective study investigating the Aetiology and outcomes of Blood Culture negative endocarditis in a tertiary centre in Qld	Natasha Vaselli & Fraser Kirk
1140 - 1150	Single-centre Case Series of Gram-Negative infective endocarditis and cardiac implantable electronic device infections	Ernest Tee
1150 – 1230	MDT Session – Robert Horvath, Chris Robson, Gabrielle O’Kane and Renjy Nelson	ACE Committee
1230 – 1330	Lunch	
1330 – 1350	IE in the critically ill	Mbakise Matebele
1350 – 1410	Beta-lactam TDM	Cassandra Vale
1410 – 1420	Outpatient Parenteral Antimicrobial Therapy for patients with Enterococcus faecalis endocarditis	Simon Briggs
1420 - 1430	Bicuspid aortic valve endocarditis: A tertiary institution retrospective cohort study	Fahed Ahmad
1430 – 1440	Best Proffered Paper Presentation	Robert Horvath
1440 – 1500	Increased risk on infective endocarditis following transurethral resection of the prostate (TURP)	Anna Stahl
1500 – 1520	Afternoon Tea	
1520 – 1540	Surgery in IE (Australian perspective)	Doug Wall
1540 – 1600	Surgery in IE (International perspective)	Carlos Mestres
1600 – 1620	Treatment of chronic Q Fever: A continuing challenge	Arístides de Alarcón González
1620 – 1640	The NIDUS Registry	Emil Fosbøl & Peter Laursen Graversen
1640 – 1700	Closing Comments	ACE Committee



# 2024 Infective Endocarditis Symposium

## Guest Speakers

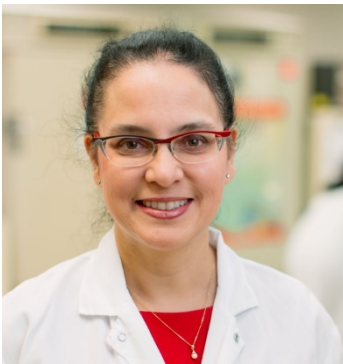


### David T Durack, MD, D Phil, FRCP, FRACP, FACP

Dr. David T Durack is Consulting Professor of Medicine at Duke University, and was Senior Vice President, Corporate Medical Affairs and Chief Medical Officer at Becton Dickinson & Co. (retired 10/2012).

Education: Correspondence School of West Australia; Scotch College, WA; University of WA medical degree '69; Rhodes Scholar at Oxford University, Doctor of Philosophy '73, doctoral thesis entitled "Experimental Endocarditis". Internship and residency at Radcliffe Infirmary, Oxford and Royal Postgraduate Medical School, Hammersmith Hospital, London. Chief Resident and Faculty member, Department of Medicine, University of Washington, '74-'77. Chief, Division of Infectious Diseases and International Health and Professor of Medicine, Duke University, '77-'94.

Research interests: pathogenesis and chemotherapy of Infective Endocarditis and other bacterial, viral and fungal infections. He is a Fellow of the Royal College of Physicians (UK), the Royal Australasian College of Physicians and the American College of Physicians; he has published more than 230 articles and textbook chapters and co-edited several textbooks. Dr. Durack has been elected to the American Society for Clinical Investigation, the Council of the Infectious Diseases Society of America, and the American Academy of Microbiology. He has served on an FDA Review Panel, the Joint Commission Resources Board of Directors, and as Chairman of the Board, ASM Resources. In addition to his clinical and research activities, he has 17 years' experience as a senior executive in the medical devices and diagnostics industry, and currently provides consultation to medical technology companies. Dr Durack is also on the ISCVID (International Society for Cardiovascular Infectious Diseases) Council.



### Robin Patel

Robin Patel is the Elizabeth P. and Robert E. Allen Professor of Individualized Medicine and the Director of the Infectious Diseases Research Laboratory, Co-Director of the Clinical Bacteriology Laboratory, Vice Chair of Education in the Department of Laboratory Medicine and Pathology, and former Chair of the Division of Clinical Microbiology, at the Mayo Clinic.

Since the beginning of her tenure at the Mayo Clinic, Dr. Patel has focused her research on bacterial infections. Her work focuses on three major areas: (1) improvement of next-generation diagnostic techniques for infectious diseases, (2) understanding the inherent biology of periprosthetic infection, and (3) understanding antibiotic resistance through a clinical lens. She has published over 600 peer-reviewed publications and is

supported by the National Institutes of Health and the Centers for Disease Control and Prevention. She is the Director of the Laboratory Center of the Antibacterial Resistance Leadership Group of the National Institutes of Health.

Dr. Patel received an undergraduate degree in Chemistry from Princeton University, where she graduated magna cum laude. From there, she obtained a medical degree from McGill University. Afterwards, Dr. Patel completed Internal Medicine Residency and Fellowships in Medical Microbiology and Infectious Diseases at the Mayo Clinic.

Since then, she has been involved in setting standards for diagnostic and clinical care of bacterial infections, as evidenced by the (select) positions she has held or holds within the American Society for Microbiology (President, Secretary), American Board of Pathology (Microbiology Test Writing Committee Member), Clinical and Laboratory Standards Institute (Subcommittee on Antimicrobial Susceptibility Testing Voting Member), National Institutes of Allergy and Infectious Diseases (Council Member), National Board of Medical Examiners (Microbiology/Immunology Test Material Development Committee Chair), Journal of Clinical Microbiology (Associate Editor), Clinical Infectious Diseases (Associate Editor) and the Presidential Advisory Council on Combating Antibiotic-Resistant Bacteria (Voting Member).

In addition, Dr. Patel's continued commitment to mentorship can be translated into a long list of trainees from around the world; she had dedicated hours of teaching to train the next generation of clinical and research laboratory scientists.



# 2024 Infective Endocarditis Symposium



## Cristiane Lamas

Cristiane Lamas is an infectious diseases physician; she did her residency in the Universidade do Estado do Rio de Janeiro (UERJ); and her Master's Degree and PhD in Tropical Medicine at FIOCRUZ, Rio de Janeiro, Brazil. She works in Rio de Janeiro at Instituto Nacional de Cardiologia, where she leads the research group on infective endocarditis and has collaborated with the International Collaboration on Endocarditis, ICE, initiative, since 2006. She is also a consultant at the Evandro Chagas Institute of Infectious Diseases, Fiocruz. Main interests are infective endocarditis, other valve diseases, rickettsia strictu sensu and latu sensu (*Bartonella* spp, *Coxiella burnetii*), nosocomial infections, systemic mycosis, HIV/AIDS and opportunistic infections. She is an active member of the Brazilian Society of Infectious Diseases (Sociedade Brasileira de Infectologia) and of the International Society of Cardiovascular Infectious Diseases (ISCVID).



## Professor Emil Fosbøl, MD, PhD

Emil is Professor of cardiology, with focus on valvular heart diseases at the University of Copenhagen. He is also a senior consultant cardiologist at The Heart Centre, University Hospital of Copenhagen, Rigshospitalet, and department-chief of the department for valvular diseases. He is associate editor of The European Heart Journal and Associate Editor of The American Heart Journal. As well as Denmark, his research career has included a post-doc fellowship at the Duke Clinical Research Institute. His research metrics include a H-index of 57, 424 published papers (including 33 first authorships and 112 last authorships) and 9213 citations. He has supervised 17 PhDs (5 as main supervisor), and 32 research-year medical students. He currently serves on the ESC endocarditis guidelines committee. He is chair of 5 RCTs - ASTERix, CuDOS, CROWD-HF, EMPAVR, CIEDLESS and CIEDOUT, and on steering committee of POET, POET2 and ENDO-HOT. He has been successful in multiple grants totalling approximately 34 DKK in value (about \$7.5 Million AUD).



## Carlos - A. Mestres MD PhD FETCS

Carlos – A. Mestres, MD, PhD, FETCS, is currently an Extraordinary Professor at the Department of Cardiothoracic Surgery and the Robert W.M. Frater Cardiovascular Research Centre, The University of the Free State, Bloemfontein, South Africa, appointed 2018. Dr. Mestres has experience and expertise in Cardiovascular and Thoracic Surgery. Dr. Mestres received his medical degree in 1979 and his PhD in 1988 from the University of Barcelona. He served as Senior Consultant in the Department of Cardiovascular Surgery, University Hospital Zürich, Zürich, Switzerland (August 2017-September 2021) where he transitioned after three years as Staff Surgeon at the Cleveland Clinic Abu Dhabi, UAE (August 2014-2017) and thirty years as Senior Consultant at the Hospital Clinico, University of Barcelona in Barcelona, Spain (1985-2014). His research interest includes antiplatelet drugs, the behaviour of vascular grafts and homografts, aortic diseases and cardiovascular infections. He is active in clinical surgery. He has shown particular interest in inflammatory and infectious diseases of the cardiovascular system in addition to the regular practice in all areas of surgery (especially endocarditis and HIV-1 infection), cardiovascular tissues (homograft valves and arteries), coronary surgery, valve surgery and surgery of the aorta, biomaterials, and medical devices. As a member of the Hospital Clinico Endocarditis Working Group, active for over three decades, several studies and publications were produced over the years. Dr. Mestres has participated in the development of Cardiovascular Tissue banking in Spain, first of its kind in the country. Further bio information for Dr Mestres can be found here [2024 ACE Australasian Infective Endocarditis Hybrid Symposium](#)





# 2024 Infective Endocarditis Symposium



**Peter Laursen Graversen**

Dr Peter Laursen Graversen graduated from Copenhagen University in 2016 as a medical doctor and have since gained experience in internal medicine, particularly in cardiology, nephrology, and infectious diseases. My passion for research led me to complete a pregraduate research year focused on preventive cardiology. Currently, I am pursuing a Ph.D. at the Department of Cardiology at Copenhagen University Hospital, Rigshospitalet, where I specialize in valvular heart diseases, with an emphasis on infective endocarditis, under the supervision of Emil Fosbøl. I live in central Copenhagen with my girlfriend and two children, and I enjoy being outdoors and staying active through various sports.



**Arístides de Alarcón González**

Dr. Alarcón is a specialist in Infectious Diseases, with a special interest in cardiovascular infections. Member of the group for the support for the management of endocarditis in Spain, he has made outstanding research in the field of infective endocarditis and cardiac electrostimulation device infections. He is author of several publications on *Coxiella burnetii* infections and coordinates a Spanish research group in this field.



**Anna Stahl, medical doctor, PhD-student,**

**The Heart Center, Copenhagen University Hospital, Denmark.**

Main research areas: Epidemiology of infective endocarditis, bacteremia and procedure related endocarditis.



**Dr Douglas Wall BSc, MBBS (Hons), FRACS, Cardiothoracic Surgeon, The Prince Charles Hospital**

He is a Senior Visiting Medical Officer (Cardiothoracic Surgery) at the Prince Charles Hospital. He is one of the states Lung Transplant Surgeons. Doug has private rooms at St Andrew's War Memorial Hospital (Spring Hill, QLD), St Vincent's Private Hospital Northside (Chermside, QLD) and Buderim Private Hospital (Buderim, QLD)

He is a graduate of the University of Queensland and obtained his Royal Australasian College of Surgeons Fellowship in 2005. He also undertook a year of Fellowship at the Birmingham Hospital, UK, in Congenital Cardio-thoracic Surgery.

Doug has extensive experience and special interest in lung transplantation, adult congenital surgery, and complex and redo valvular surgery and minimally invasive valve surgery.



# 2024 Infective Endocarditis Symposium



**Dr Russell Denman MBBS FRACP FSCANZ**

I am Senior Staff Cardiologist at The Prince Charles Hospital, i have been clinical director of EP and Pacing since 2001. We provide and device extraction service for the state and am one of the most experienced cardiac lead extractors in Australia, the institution currently perform approximately about a 100 cases a year.



**Cassandra Vale, Pharmacist - Team Leader, Intensive Care & Main Operating Theatres**

I am currently the Team Leader Pharmacist in the Adult Intensive Care Service at The Prince Charles Hospital, having spent the past 5years in this position and 5years prior to that in the specialist Heart Failure & Cardiac Transplant role. I have a keen interest in individualised and targeted patient management, particularly in the area of antimicrobials. My time at TPCB has meant I have had significant exposure to and experience in implementing, understanding and interpreting the evolving role of therapeutic drug monitoring in severe infection, particularly in the infective endocarditis population



**Associate Professor Dylan Bartholomeusz, MBBS, MD, FRACP**

Dylan is a Senior Gastroenterologist and Nuclear Medicine Physician at the Royal Adelaide Hospital, Head of Nuclear Medicine in SA Medical Imaging. An Associate Professor in Medicine at Adelaide University and faculty member of the SA Health and Medical research Institute (SAHMRI) his research interests are in inflammation and infection imaging, novel radiopharmaceuticals, gastrointestinal function, body composition and sarcopenia, Positron Emission Tomography in gastrointestinal malignancy and theranostics in prostate and pancreatic cancer.



# 2024 Infective Endocarditis Symposium



## **Gabrielle O'Kane, B.N., R.N. Infective Endocarditis Nurse Navigator CALHN**

Gabrielle O'Kane is a Registered Nurse currently employed with SA Health. She gained an interest in structural heart disease on a background of her cardiothoracic and cardiology experience in both Australia and the Middle East. Gabrielle commenced her position as Infective Nurse Navigator at the Royal Adelaide Hospital in July 2024. She hopes to expand the role in further assisting the multidisciplinary team towards providing timely and quality care for those who have suspected or confirmed Infective Endocarditis.



## **Chris Robson Infectious Diseases Physician. Victorian Heart Hospital, Monash Health**

Chris is an ID physician at the Victorian Heart Hospital, part of Monash Health in Melbourne, Australia. He is also a PhD candidate with the School of Clinical Sciences at Monash University. His research interests include antimicrobial pharmacokinetics, infective endocarditis and cardiac device infections. He is a member of the steering committee for the Australasian Collaboration in Endocarditis.



## **Renjy Nelson, Infectious Diseases Physician. The Queen Elizabeth Hospital and Royal Adelaide Hospital. SA**

Associate Professor Renjy Nelson was born and raised in India. He completed his undergraduate degree in medicine and post graduate degree (MD General medicine) studied medicine from Christian Medical College and Hospital, Vellore, India in 2000. He completed speciality training at the Royal Adelaide Hospital and The Queen Elizabeth Hospital and obtained his Fellowship in General Medicine and Infectious Diseases (FRACP) in 2011.

He has been a consultant in Infectious Diseases at The Royal Adelaide Hospital and The Queen Elizabeth Hospital (Central Adelaide Local Health Network – CALHN), South Australia since then. He is also an Associate Professor in the School of Medicine, University of Adelaide. He continues to be actively involved in research. He has an interest in cardiovascular and musculoskeletal infections. He coordinates the Multi-disciplinary Infective Endocarditis meeting in CALHN which has been running for four years.

He has participated and led various quality improvement.





# 2024 Infective Endocarditis Symposium

## Convenors



### **Robert L Horvath, MBBS (USyd), FRACP, FRCPA**

Robert Horvath is an infectious diseases physician at The Prince Charles Hospital (TPCH) in Brisbane, and a Microbiologist at Pathology Queensland. His career spanned NSW, ACT and Queensland (including Torres Strait and Cape York). In 2015 He co-founded with John Sedgwick the Infective Endocarditis Working Group (IEWG) which evolved into ieQ in 2018. He co-founded ACE (Australasian Collaboration in Endocarditis) and is currently the chair. He also is a co-founder of QFIG (Q fever Interest Group) and is currently on it's steering committee. He was a convenor of the 2019 Endocarditis Symposium, also held at TPCH. He also established Queensland's first funded Infectious Diseases Telehealth service which provided remote services to an entire HHS (Wide Bay population 289,000). His Clinical and research interests include cardiovascular infections, Q fever, and various viral infections.



### **John F Sedgwick, MBBS PhD (UQ), FRACP, FCSANZ, FASE**

Dr. John Sedgwick is a clinician academic and cardiologist. He is a Senior Staff Specialist (part-time), providing Echocardiography services at The Prince Charles and Caboolture Hospitals, as well as supporting medical students in his role as Deputy Head of the North Learning Community Year 2 (Secondment, part-time) within the Prince Charles Hospital Northside Clinical Unit, The University of Queensland.

John is a Fellow of the Royal Australasian College of Physicians, American Society of Echocardiography and Cardiac Society of Australia and New Zealand and has been certified in Adult Comprehensive Echocardiography with Diplomate status by the National Board of Echocardiography (USA). He has been awarded a Doctor of Philosophy (PhD) in Medicine from the University of Queensland, with his thesis investigating the role of echocardiography in infective endocarditis (IE). John is a co-chair (academic) of Infective Endocarditis Queensland, a committee member of the Cardiology section of the Steering Committee of the Australasian Collaboration in Endocarditis (ACE) and is an Advanced Life Support Instructor (ALS2) with the Australian Resuscitation Council. Professional interests include medical education and collaborative endeavors in the field of IE.



### **Eugene Athan, MBBS (Hons) FRACP MPH MD**

Professor Eugene Athan is Director of the Barwon South West Public Health Unit. Professor of Infectious Disease at School of Medicine Deakin University. He is the Co-Director of the Centre for Innovation in Infectious Disease and Immunology Research (CIIDIR) a collaboration between Deakin University and Barwon Health with an operational budget of \$5million per annum. Vision is to study diseases of public health importance, translating laboratory insights into clinical care, and public health policy. Flagship programs include medical device infections, a biofilm laboratory, Mycobacterium (M.) ulcerans, COVID-19 and Staphylococcus aureus research. He leads a diverse team of 80 early and experienced researchers comprising of molecular biological, microbiological, environmental, material scientists, public health specialists, epidemiologists, and clinicians. He has over 230 publications in peer reviewed journals and has several grants including a FDA Long COVID cohort study. He is a senior Council member of ISCVID and a PI for SNAP study. He is an experienced clinical trials specialist with more than 25 advanced trials including Chief PI for the GSK SA-5AG phase 2 trial of an S. aureus vaccine candidate.





# 2024 Infective Endocarditis Symposium



**Dr Mbakise Matebele BMed (Newcastle), FCICM**

Intensivist, The Prince Charles Hospital. He is a Senior Staff Specialist in Intensive Care at The Prince Charles Hospital Adult Intensive Care Services since 2017. He is a fellow of the College of Intensive Care of Australia and member of the Australian and New Zealand Intensive Care Society. After graduating in medicine at the University of Newcastle and completing an internship with the Northern Sydney Area Health Services, he moved to Queensland. He then completed his intensive care training through the Queensland Intensive Care training pathway. On his current role as an Intensivist, he is also a Medical Donation Specialist. He is an ECMO retrieval specialist with the Queensland ECMO Retrieval Services and the Prince Charles Hospital. He is the Co-chair of Infective Endocarditis Queensland (iEQ) and a member of the steering committee of Australasian Collaboration in Endocarditis (ACE).

He is currently a Senior Lecturer with the University of Queensland and Griffith University School of Medicine. He is a course instructor in the ECMO and CALS Instructor course.

His interests are the perspectives of infective endocarditis in the critically ill patients (before and after cardiac surgery). He also had interests in the use of albumin and fluids in cardiac surgery. He is currently the principal site investigator for the multicentre, innovative and adaptive "CALIPSO" trial and previously the QKR-309 trial. He has been a site principal investigator for multiple ANZICS multicentre trials at the TPCH (NOTACS and SAGE-ANZ). He was awarded the New Investigator Award in 2019.

## Symposium Co-ordinator

Leah Lucadou-Wells, Course Co-Ordinator, Medical Education Unit, The Prince Charles Hospital

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## Session Chairs



### Session1: 0900 - 1040

*Eugene Athan and Mbakise Matebele*

### Session 2: 1100 - 1230

*Emily Tucker and Dylan Batholomeusz*

### Session 3: 1330 - 1500

*Kanthi Vemuri and John Sedgwick*

### Session 4: 1520 - 1700

*Renjy Nelson and Kathryn Colebourne*



# 2024 Infective Endocarditis Symposium

## Proffered Papers



**Dr Natasha Marcella Vaselli** <sup>1,2,3</sup>, Mr Harrison Gibson <sup>4</sup>, Dr Frazer Kirk <sup>5,6</sup>, Dr Katherine Garnham<sup>1</sup>

*"A retrospective study investigating the Aetiology and outcomes of Blood Culture Negative Endocarditis in a Tertiary Centre in Queensland"*.

**Ernest Tee**, Vanathi Nagendra

Infectious Diseases Department, Liverpool Hospital, Sydney, New South Wales

*"Single-centre Case series of Gram-negative infective endocarditis and cardiac implantable electronic device infections"*.

**Simon Briggs**,<sup>1</sup>Eamon Duffy,<sup>1</sup>Hasan Bhally,<sup>2</sup>Matthew Broom,<sup>2</sup> Patrick Campbell,<sup>3</sup> Rebekah Lane,<sup>1</sup> Stephen McBride,<sup>4</sup> Genevieve Walls,<sup>4</sup> Simon Dalton.<sup>3</sup>

<sup>1</sup>Infectious Disease Unit, Auckland City Hospital, Te Whatu Ora Te Toka Tumai Auckland

<sup>2</sup>Infectious Disease Unit, North Shore and Waitakere Hospitals, Te Whatu Ora Waitemata

<sup>3</sup>Infection Management Service, Christchurch Hospital, Te Whatu Ora Waitaha Canterbury

<sup>4</sup>Infectious Disease Unit, Middlemore Hospital, Te Whatu Ora Counties Manukau

*'Outpatient Parenteral Antimicrobial Therapy for patients with Enterococcus faecalis endocarditis using continuous infusion intravenous benzylpenicillin plus intravenous ceftriaxone'*

**Fahed Ahmad**, Richard Zhang, George Youssef

St George Hospital, NSW

*"Bicuspid aortic valve endocarditis: A tertiary institution retrospective cohort study"*





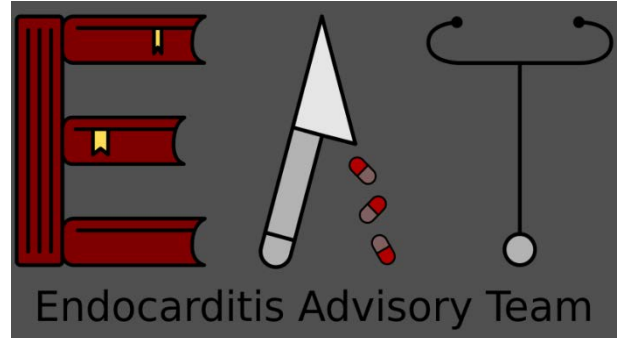
# 2024 Infective Endocarditis Symposium



ieQ's mission is to improve outcomes of endocarditis by advances in diagnosis, management and prevention, via the 4 pillars of education, management, research and collaboration.

## ieQ History

ieQ started life as the IEWG (IE working group) during 2015, as a multidisciplinary IE interest group, based at The Prince Charles Hospital (TPCH). Due to a successful SEED-LINK grant, IEWG (rebadged as ieQ during 2018) established Queensland's first dedicated endocarditis biobank, with samples from consented patients, to aid in future biomarker and genetic studies for earlier diagnosis, better prognostication and improved outcomes. The first samples were biobanked during October 2019. ieQ graciously thanks the TPCH charity, "Common Good Foundation" for providing financing to keep the biobank operational.



UQ (University of Queensland) graciously hosted the ieQ website (initially a single page!) to assist in ieQ's aspirations. ieQ also developed patient and clinician information forms to hopefully prevent or recognise early episodes of endocarditis, since superseded by ACE.

ieQ established a multi-disciplinary team for complex cases of endocarditis, with it's first meetings during 2019. During 2020, it was expanded to offer advice statewide, coincidentally going "virtual" the same month as the national COVID lockdown. This MDT was badged EAT- Endocarditis Advisory Team, with the entendre of catering prior to COVID.

ieQ facilitated several national virtual meetings from 2020 to 2022, largely to spearhead synchronisation of data-fields to develop a future "virtual national endocarditis registry".

ieQ's most famous achievement was a national IE symposium at the Prince Charles Hospital during October 2019, which can be found on the ieQ website. The host of star speakers included David Durack and a multidisciplinary cast from across Australia.

ieQ as a seque from Q fever endocarditis, also fostered the development of QFIG and hosts both QFIG (and ACE) currently on it's website.

## Committee Members

*Dr Robert Horvath, Infectious Diseases Physician and Clinical Microbiologist, Infection Management Services; The Prince Charles Hospital (Co-Chair)*

*Dr John F Sedgwick, Cardiologist and Senior Staff Specialist, The Prince Charles Hospital (Co-chair)*

*Dr Mbakise (Pula) Matebele, Staff Specialist Intensivist ECMO Retrieval Specialist, The Prince Charles Hospital (Co-chair)*

*Dr Yong S Wee, Cardiologist, The Prince Charles Hospital*

*Dr Joseph C Lee, Clinical Director and Specialist Consultant Physician; Nuclear Medicine; Department of Medical Imaging; The Prince Charles Hospital*

*Dr David Godbolt, Consultant Anatomical Pathologist, Director of Pathology, The Prince Charles Hospital*

*Dr Peter Pohlner, Cardiac Surgeon. The Prince Charles Hospital*

*Dr Alaa Alghamry, General Medicine and Stroke Physician. Internal Medicine, The Prince Charles Hospital*

*Dr Isuru Ranasinghe, Senior Staff Specialist Cardiologist. A/Prof in Cardiology. The Prince Charles Hospital*

*Dr Rishendran Naidoo, Cardiothoracic Surgeon, The Prince Charles Hospital*

*Dr Kanthi Vemuri, Infectious Diseases Physician, The Prince Charles Hospital.*

*Dr Livia Williams, Cardiothoracic Surgeon/Senior Staff Specialist, The Prince Charles Hospital.*

*Maricel Roxas Nurse Manager, Cardiology Clinical Research Centre, The Prince Charles Hospital., Adjunct Fellow, PCH Northside Clinical Unit, The University of Queensland (Project Manager)*





# 2024 Infective Endocarditis Symposium

## Cardiology Clinical Research Centre (CCRC)

The Cardiology Clinical Research Centre (CCRC) is one of the leading sites in Australia in coordinating and conducting cutting-edge, novel and first-in-man cardiology interventional and structural percutaneous device clinical trials and is currently one of the largest Heart Failure research centre in the country. The Cardiology Research team is comprised of experienced and dynamic Cardiologists encompassing all cardiac sub-specialities, Clinical Research Nurse Coordinators and Administration Officers.

CCRC has been involved with greater than 100 clinical trials and numerous publications.



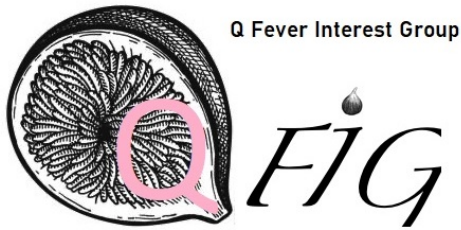
[tpch-cardiology-research@health.qld.gov.au](mailto:tpch-cardiology-research@health.qld.gov.au).



**Metro North Hospital and Health Service**  
**The Prince Charles Hospital**  
**Cardiology Program**



# 2024 Infective Endocarditis Symposium



Q Fever Interest Group

QFIG (Q fever interest group), founded in 2022, is a multi-disciplinary collaboration of Australians with an interest in Q fever, ranging from clinicians (specialists, rural GPs and Vets) to researchers, with an aim to improve understanding, outcomes, and prevention of Q fever.

For further information, please contact [qfig@health.qld.gov.au](mailto:qfig@health.qld.gov.au)

## **Projects:**

**Expert Advisory Group** to discuss complex cases/issues. Meets monthly.

**Education:** input at several national /statewide and local meetings.

Proposed 2025 national symposium (weekend) at Byron Bay.

Media releases/interviews to engage general public.

Synchronised state **registries** (de-facto national registry).

**Vaccination.** Improve access to current vaccine.

Develop a new vaccine that will allow booster dosing /mass vaccination and dispense with need for skin and blood testing.

## **Diagnostics.**

Encourage more and earlier testing, especially utilising PCR/molecular technology.

Encourage development of RAT technology in future.

## **Research.**

Better understand Q fever in pregnancy and childhood.

Better understand impact of earlier therapeutic interventions in acute Q fever.

## **QFIG Steering Committee.**

*Candice Holland*

*Robert Horvath*

*Stephen R Graves*

*Jenny Robson*

*Sarah Coghill*

*Katherine Garnham*

*Penny Hutchinson*

*Nicholas Small*

The Prince Charles  
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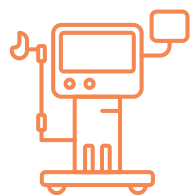
# 2024 Philanthropic Foundation of the Year

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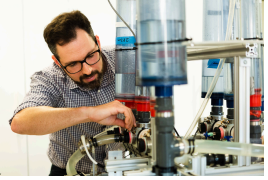


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**\$95M+**  
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**460+**  
International  
collaborating sites

**The Critical Care Research Group (CCRG)** brings together a diverse team of passionate scientists, engineers and clinical professionals, united by the common goal of improving outcomes for the critically ill.

Headquartered at The Prince Charles Hospital, one of the largest cardiothoracic hospitals in Australia, CCRG realises the huge potential of integrating technology and biology in combating critical illness and disease. Our aim is to improve the understanding and use of technologies to better treat patients.

Established in 2004, CCRG continues to grow collaborations with the world's best researchers, creating a silo-free global ecosystem of patients, medicine, engineering, biology, and beyond. It is our ethos of "patient first" that has brought some of the brightest minds to us, allowing us to grow into Australia's largest multidisciplinary research group.



**The Living Heart Project:** Machine perfusion that extends the time donor hearts can remain outside the body allowing them to travel further than ever before.



**ICU of the Future:** World-first redesign of the ICU environment to be more patient-centric and recovery-focused.



**COVID Critical:** A global alliance of healthcare professionals in 64 countries creating the world's largest database of COVID-19 ICU patient information.



**BiVACOR Total Artificial Heart:** The Critical Care Research Group supported early development and preclinical trials of the revolutionary total artificial heart.

 Critical Care Research Group

 [ccrg.org.au](http://ccrg.org.au)

 [tpch-ccrg@health.qld.gov.au](mailto:tpch-ccrg@health.qld.gov.au)



**critical  
care**  
RESEARCH GROUP





# WHY CCRG?



*"CCRG offers unique research possibilities found in a combination of engineering, biology lab, preclinical models and patients, all on one campus."*

**Professor Maximilian Malfertheiner**  
Medical Director  
Lung Centre Donaustauf (Germany)

*"CCRG has provided me so many opportunities to progress my research career...The work we do has the potential to make a real difference to the lives of critically ill patients and their families. And for that I am truly grateful."*

**Dr Nchafatso Obonyo**  
CCRG Postdoctoral  
Research Fellow (Kenya)



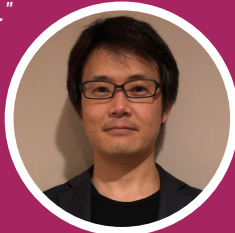
*"During the pandemic, CCRG single-handedly assembled a global alliance of health care professionals to support those at the coalface. This will have an impact on the way medical research operates for generations to come."*

**Dr Leticia Helms MD**  
PGY1 Internal Medicine, Columbia  
Medicine Residency (Brazil/USA)



*"It is no exaggeration to say that working with CCRG profoundly changed my career... consider CCRG if you want to learn how to conduct your own research in an immersive and supportive environment."*

**Dr Kei Sato**  
National Cerebral and  
Cardiovascular Centre  
(Japan)



*"Research is about solving problems through innovation. CCRG provided me the opportunity to do this while working alongside a highly skilled and motivated team."*

**Dr Lucia Gandini**  
University of Milan  
(Italy)



*"This is true science to me... That's why I get excited..!"*

**Dr Mark Ogino MD**  
International President (2020)  
Extracorporeal Life Support Organization  
COVID Critical Steering Committee (USA)



# Historical Milestone of The Prince Charles Hospital with an emphasis on cardiovascular aspects

- 2008 Queensland's first Corevalve procedure performed at TPCH by Drs Darren Walters and Con Aroney  
Australia's first Adult Congenital Heart Disease unit opens  
The Indigenous Cardiac Outreach Service was established to treat patients in remote communities
- 2009 Extracorporeal Membrane Oxygenation (ECMO) Service is established in response to the H1N1 Swine flu pandemic  
Theatre 4 opened in May as a new hybrid integrated operating suite – the first of its' kind in the southern hemisphere
- 2011 The first clinical procedures to be performed in the QLD public health system to insert Atrial Appendage Occlusion device occurred in November  
TPCH is the first public hospital in QLD to use a Laser Lead Extraction (LLE) procedure which is a safer way to remove implantable technology such as pacemakers  
TPCH is one of four hospitals in Australia to have access to the new Left Ventricular Assist Device (LVAD)  
Queensland public hospitals' first Mitral Clip procedure is performed
- 2013 The Richard Slaughter Centre of Excellence in Cardiovascular MRI is one of the first MRI Centres in the world to have the advanced technology required to capture ultrafast images of the heart during exercise
- 2015 Inter-Atrial Shunt Device (IASD) is trialled at TPCH for the first time in QLD  
TPCH Paediatric ED sees more children than the Royal Children's Hospital ED did in last two years of closure
- 2019 PEARS (Personalised External Aortic Root Support) procedure undertaken at TPCH



The Prince Charles Hospital







# 2024 Infective Endocarditis Symposium

## Endorsements



The Prince Charles Hospital

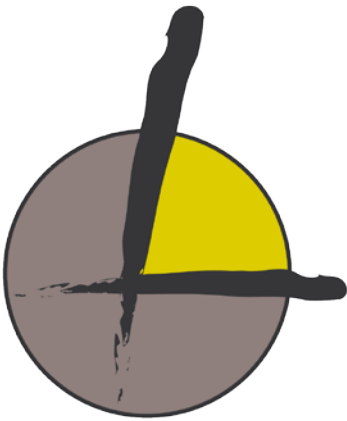




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# 2024 Infective Endocarditis Symposium

## Upcoming Events



**ISCVI 2026**  
The 17th International Symposium on Modern Concepts  
in Endocarditis and Cardiovascular Infections

**Rennes (France)**  
**June 29 - July 1, 2026**



Symposium President: professor Pierre Tattevin - pierre.tattevin@chu-rennes.fr







### ACE Research Day

October 2025, Proffered Papers Only

For further details see [Australasian Collaboration in Endocarditis - ACE - Medical School - University of Queensland \(uq.edu.au\)](http://Australasian Collaboration in Endocarditis - ACE - Medical School - University of Queensland (uq.edu.au))





## Q Fever Symposium

### 14<sup>th</sup> to 15<sup>th</sup> June 2025

### Byron Bay

## Save the Date!





# ACE

AUSTRALASIAN COLLABORATION  
IN ENDOCARDITIS