



# 2020

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## GRADUATE DIPLOMA CARDIAC ELECTROPHYSIOLOGY

THE ONLY DEDICATED COURSE IN CARDIAC EP CERTIFIED AND RECOGNISED THROUGHOUT AUSTRALIA

[cepia.com.au](http://cepia.com.au)  
[info@cepia.com.au](mailto:info@cepia.com.au)  
+61 (0) 403 767 761

#### Course Director:

Jason Riley, BSc, Grad Dip Cardiac EP  
Certified EP and Device Specialist (IBHRE)  
Director, Cardiac Electrophysiology Institute of Australasia (CEPIA)

#### Academic Course Co-Director:

Associate Professor Haris Haqqani MBBS (Hons) PhD FRACP FCSANZ FHRS  
Senior Cardiologist and Electrophysiologist  
Prince Charles Hospital, Brisbane, QLD, Australia

#### Faculty Members:

Dr Stephen Pavia, MBBS FRACP  
Electrophysiologist  
Wesley Hospital, Brisbane, QLD, Australia

Dr Russell Denman, MBBS FRACP  
Director Electrophysiology  
Prince Charles Hospital, Brisbane, QLD, Australia

Dr Vincent Deen, MBBS FRACP  
Electrophysiologist  
Prince Charles Hospital, Brisbane, QLD, Australia  
Wesley Hospital, Brisbane, QLD, Australia

#### Qualified Assessors:

Jason Riley, BSc, Grad Dip Cardiac EP  
Cardiac Device and EP Specialist (IBHRE)

Scott Turner, BAppSc (HMS), Grad Dip Cardiac EP  
Cardiac Device Specialist (IBHRE)



One free iPad loaded  
with full course material  
per GradDip registrant

### HANDS-ON SESSIONS

Two days of live ablation  
Wet lab ablation  
3D mapping  
Anatomical cardiac dissection  
Video Tutorials

Supported by:



## Who should attend?

- > Cardiac physiologists
- > EP fellows
- > EP registrars
- > Other allied professionals interested in cardiac EP

## Programme description

The CEPIA Graduate Diploma of Cardiac Electrophysiology (EP) is designed to be a comprehensive overview of all facets of contemporary cardiac electrophysiology, from cellular physiology to advanced mapping techniques with an emphasis on the analysis of intracardiac recordings.

Theoretical and practical skills endow participants with the ability to perform any diagnostic or invasive EP procedure, from syncope studies to atrial fibrillation ablation procedures.

## Enrolment prerequisites

The educational eligibility criteria are:

- > The possession of an appropriate Bachelor degree equivalent to working in the therapeutic area of electrophysiology, or a demonstrated equivalence to an appropriate degree, **and**
- > Current active employment in the field of cardiac electrophysiology with direct access to an EP lab and be personally performing and/or participating in EP procedures.

## Objectives

To achieve comprehensive knowledge of the:

- > technical and clinical concepts of cardiac EP
- > role of EPS in managing patients with bradyarrhythmias and tachyarrhythmias
- > recognition and differentiation of bradyarrhythmias and tachyarrhythmias
- > aetiology, features, progression, prognosis and EP characteristics of bradyarrhythmias and tachyarrhythmias
- > indications, risks and treatment methods of bradyarrhythmias and tachyarrhythmias
- > mechanisms of supraventricular and ventricular arrhythmias, electrophysiological diagnostic manoeuvres, ablative and mapping techniques
- > principles, methods and biophysics of ablation
- > endpoints, success and recurrence rates of pharmacologic and ablative treatment methods.

## Course content

The course contains nine units of competency. Embedded in the required knowledge for the units of competency is a significant body of high level underpinning knowledge related to cardiac anatomy and physiology; cardiac pharmacology; principles of ablation; and mechanisms of arrhythmias.

Participants must demonstrate competence in all nine units to gain the Graduate Diploma qualification. A Statement of Attainment will be issued for any unit of competency satisfactorily completed if the full qualification is not completed.

The units are delivered and assessed in three Modules (A, B, C).

## Programme format

- > 15 lectures delivered in 3 separate modules (A, B, C) held approximately 4 months apart
- > Hands-on sessions allow practical exposure to topics
- > Case studies place theory into real-life clinical scenarios
- > Tutorials further explore complex issues
- > Take-home workbooks permit practical assessment

### Module A

1. Cardiac Anatomy and Physiology
2. Principles of Electrophysiology: Part 1
3. Principles of Electrophysiology: Part 2
4. Bradycardia and Conduction System Dysfunction
5. Cardiac Pharmacology

### Module B

6. Principles of Ablation
7. Mechanisms of Arrhythmias
8. AV Nodal Reentrant Tachycardia
9. AV Reentrant Tachycardia
10. Rare SVT Syndromes

### Module C

11. Atrial Tachycardia
12. Atrial Flutter
13. Atrial Fibrillation
14. VT: Mechanisms, Mapping & Management
15. VT: Inherited Arrhythmias

### Coursework includes:

- > Cardiac anatomy and physiology
- > Catheters, equipment and set up techniques
- > Pacing protocols, refractory periods and activation patterns
- > EP characteristics and diagnosis of sinus and AV node dysfunction
- > Cardiac pharmacology
- > Theories of reentry, automaticity, triggered activity, concealed conduction, gap phenomena and entrainment
- > Diagnostic pacing manoeuvres and interpretation
- > Biophysics of radiofrequency and cryoablation
- > EP characteristics, clinical presentation and diagnosis of supraventricular and ventricular tachyarrhythmias
- > Advanced mapping techniques including activation and pace mapping and fractionated potentials
- > Ablation indications, techniques, risks, success/recurrence rates, complications and endpoints for all forms of supraventricular and ventricular tachyarrhythmias

Code	Unit title
CEPPRE001	Apply the principles of EP to diagnostic procedures
CEPBCS002	Define and diagnose bradyarrhythmias and conduction system dysfunction
CEPTAC003	Define, diagnose and treat AV Node re-entrant tachycardia
CEPTAC004	Define, diagnose and treat AV re-entrant tachycardia
CEPTAC005	Define, diagnose and treat rare supraventricular tachycardia syndromes
CEPTAC006	Define, diagnose and treat atrial tachycardia
CEPAFL007	Define, diagnose and treat atrial flutter
CEPAFI008	Define, diagnose and treat atrial fibrillation
CEPVTC009	Define, diagnose and treat ventricular tachyarrhythmias

## Course dates and locations

<b>Module A</b>	29 - 31 January 2020	3 days	<b>Sydney</b>
<b>Module B</b>	26 - 29 May 2020	4 days	<b>Melbourne</b>
<b>Module C</b>	7 - 10 September 2020	4 days	<b>Sydney</b>

### Modules A and C location:

Rydges World Square Hotel  
389 Pitt Street  
Sydney NSW 2000  
+61 (0)2 8268 1888

### Module B location:

Rendezvous Grand Hotel  
328 Flinders Street  
Melbourne VIC 3000  
+61 (0)3 9250 1888

## Registration\*^

- > Individual modules – AUD \$3,750  
**AUD \$3,500 if paid online**
- > Three module package – AUD \$9,500  
**AUD \$9,000 if paid online**

Pay online  
and save

### Registration deadlines:

**Module A: 17 January 2020**  
**Module B: 15 May 2020**  
**Module C: 28 August 2020**

All payment must be received prior to course commencement.

The course registration fee covers attendance at all modules, course materials, handouts, hands-on sessions, 12-month access to online education tools at [cepia.com.au](http://cepia.com.au) (including case studies and tutorials), morning/afternoon teas and lunches.

Each participant will receive a free iPad^, with lifelong access to the course material app, including regular updates.

Travel and accommodation is not included and must be organised by the participant.

The CEPIA Graduate Diploma of Cardiac Electrophysiology is designed with the expectation all modules will be attended. Individual modules may be attended in isolation, however the qualification will only be awarded after successful completion of all three modules.

## Cancellation/refund policy

All requests for cancellations or refunds must be made in writing to CEPIA and are subject to the following conditions:

- > Requests received more than 45 days prior to course commencement date: 75% refund.
- > Requests received between 45–30 days prior to course commencement date: 50% refund.
- > Requests received less than 30 days prior to course commencement date: No refund.
- > No refunds or discounts will be given for failure to attend.

## Assessment and qualification

Each lecture will be assessed using a timed online multiple choice assessment (visit [cepia.com.au](http://cepia.com.au) for further information). The course is designed so all three modules and their respective online assessments can be completed within a calendar year.

Students will also be assessed on modules using take-home workbooks that must be completed and returned to CEPIA for assessment. Access to an EP lab and procedures is essential.

Each successful graduate will be awarded a CEPIA Graduate Diploma of Cardiac Electrophysiology - a nationally recognised qualification. A satisfactory outcome must be achieved for all assessment requirements. In the event of an unsatisfactory outcome for any assessment activity, a second attempt may be allowed.

## Personal tutorials via Skype

Students are able to book confidential, one-on-one, tutorials via Skype to facilitate learning, clarify course material or discuss workbooks. Screen sharing is enabled to help with any discussions or clarification of EGMs.

## Practical focus

### Hands-on sessions

Each module will be accompanied by stimulating, practical, hands-on sessions, including cardiac anatomical dissection; EP equipment hardware; catheters and sheaths; live ablation; wet lab ablation as well as 3D mapping.

**Two days of live ablation** - Spend a day at Holmesglen Private Hospital watching live ablation procedures for AVNRT and AVRT in Module B, and another day at Westmead Hospital watching live ablation procedures for ventricular tachycardia, atrial fibrillation and atrial flutter in Module C. You will interact with a physician and cardiac physiologist during all procedures and be able to see all signals and images the team performing the ablation sees.

### Case studies

Case studies place the theoretical concepts taught in each module into real-life clinical scenarios.

## About CEPIA

The Cardiac Electrophysiology Institute of Australasia is an independent government accredited Registered Training Organisation dedicated to the education and training of medical professionals in EP in Australia, New Zealand and Asia-Pacific.

Using up-to-the-minute lectures, hands-on sessions and rigorous academic and practical assessment, CEPIA strives to provide the ultimate teaching programme and aims to set the industry benchmark for educational qualifications.

**cepia.com.au**

\*These fees apply to students whose fees are either paid by or reimbursed by an organisation. For students who pay their own fees (without reimbursement from an organisation) please visit [cepia.com.au](http://cepia.com.au) for further information.

^one iPad per participant enrolled in all 3 modules

# Enrolment Form

## 2020 CEPIA GRADUATE DIPLOMA OF CARDIAC ELECTROPHYSIOLOGY

Module A	29 - 31 January 2020	Sydney	Rydges World Square, Sydney
Module B	26 - 29 May 2020	Melbourne	Rendezvous Grand Hotel Melbourne
Module C	7 - 10 September 2020	Sydney	Rydges World Square, Sydney

### 1. Participant Information

Last name:		First name:	
Degree(s)/qualifications: (copy <b>must</b> be attached to this form)			
Hospital/organisation:			
Supervisor name:		Supervisor email:	
Supervisor title/role:			
Your role: (please tick)			
<input type="checkbox"/> Cardiac physiologist	<input type="checkbox"/> Nurse	<input type="checkbox"/> Company representative	<input type="checkbox"/> Student
<input type="checkbox"/> EP fellow	<input type="checkbox"/> EP registrar	<input type="checkbox"/> Radiographer	<input type="checkbox"/> Other
Address: (Home/Work – please circle)			
City:		State:	Postcode:
Country:			
Ph: + ( )		Mobile:	
(Home/Work – please circle)			
Country Code	Area Code	Local number	
Email: (Home/Work – please circle)			

### 2. Assessment Suitability Confirmation (both must be ticked)

- My supervisor has given consent that I have access to hospital records, resources and equipment for the purposes of assessment
- I confirm that all assessments submitted and completed will be my own work

### 3. Registration Fee\* (select all applicable)

Individual modules		Three module package	
Module A	<input type="checkbox"/> AUD \$3,750 ( <b>\$3,500 if paid online</b> )	Modules A, B and C	<input type="checkbox"/> AUD \$9,500 ( <b>\$9,000 if paid online</b> )
Module B	<input type="checkbox"/> AUD \$3,750 ( <b>\$3,500 if paid online</b> )		
Module C	<input type="checkbox"/> AUD \$3,750 ( <b>\$3,500 if paid online</b> )		
Total			

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### 4. Payment Method (select one)

- Online** using the secure website registration at [cepia.com.au](http://cepia.com.au)
- Credit Card** (select one)  Mastercard  Visa
- Direct Deposit (EFT)** (Please use last name as reference)  
BSB: 923-100 AC: 60414669  
Name: CEPIA Bank: ING

Cardholder's name:		
Card number:		
Expiration date:	CSV code:	Signature:
<small>(3-digit code on back of card)</small>		

### 5. Send your registration form to:

**Post:** CEPIA, PO Box 431, Toowong, Qld, 4066, Australia  
**Email:** [info@cepia.com.au](mailto:info@cepia.com.au)

[cepia.com.au](http://cepia.com.au)

**CEPIA** CARDIAC  
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OF AUSTRALASIA

ABN 58 051 220 360