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# What EHRA has to offer

**For physicians and AP's:  
education and certification**

*Jens Cosedis Nielsen*

*Chair of EHRA Certification Committee*



# Education

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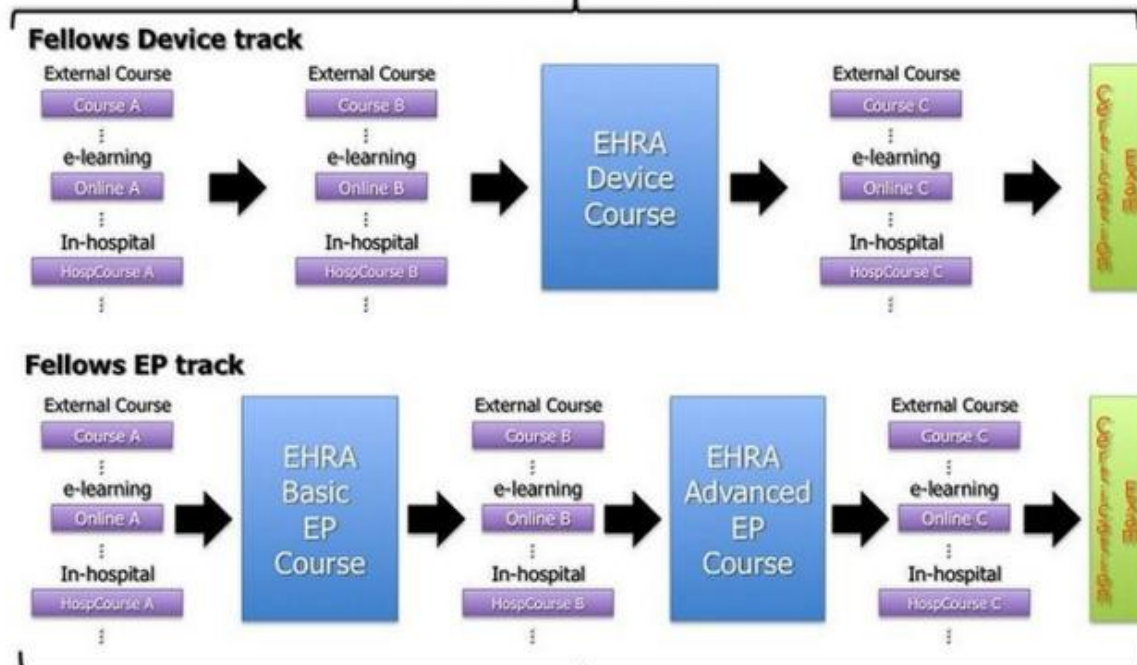
- **Physicians**
  - Electrophysiology
  - Cardiac Pacing and Implantable Cardioverter Defibrillator

## ✓ Education

- EHRA Education
- EHRA Educational courses
- Affiliated courses
- E-learning courses
- Grant and fellowship opportunities
- Stroke prevention & management in AF
- Webinars

# EHRA Educational Framework

## EHRA Affiliation



## EBAC accreditation

# EHRA Educational courses

The EHRA Education Committee is committed to offer cardiologists specialised in pacing and arrhythmias continuous medical education.



Thursday 21 - Saturday 23 April 2016 (3 Days)

## Interventional Electrophysiology and Examination Preparatory Course

Madrid - Spain

What you need to know to be well prepared for the EHRA examination.

In-person event



Friday 27 - Saturday 28 May 2016 (2 Days)

## Lead management and extraction course

Budapest - Hungary

The main goal is to help participants to gain clinical knowledge in lead management and extraction.

In-person event



Thursday 30 June - Friday 01 July 2016 (2 Days)

## EHRA Paediatric and congenital heart disease electrophysiology course

Hamburg - Germany

Interactive sessions including live demonstration of anatomy.

In-person event

## Cardiac pacing, ICD and cardiac resynchronisation

**EHRA course**

Thursday 24 - Saturday 26 March 2016 (3 Days), Vienna - Austria

*Jens Cosedis Nielsen*



**ESCeL**  
ESC eLEARNING PLATFORM

**Arrhythmias and Cardiac Pacing**  
European Heart Rhythm Association (EHRA)

0 Jens Cosedis Nielsen | [Edit Account](#) | [Log Out](#)





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[Knowledge](#)

[About EHRA](#)

[Get started](#)

## EHRA launches 59 Educational Courses online

The European Heart Rhythm Association has launched its first series of Educational Courses on ESCeL.  
New to EHRA online courses? [Click here](#) to get started!



### Discover the interview of Prof. Heidbuchel

Prof. Goncalves interviews Prof. Heidbuchel about Arrhythmias and Cardiac Pacing in the ESC eLearning platform.

1 2

VIEW

[GC Case Author Dashboard](#)

[ESCeL Home](#)

MY LEARNING DASHBOARD [Edit](#)

[Best of ESC Congress](#)

[EHRA Educational Courses](#)

### Areas of Study

[General Cardiology](#)

### Subspecialties

[Acute Cardiac Care](#)

[Cardiovascular Imaging](#)

[Heart Failure](#)

[Heart Rhythm](#)

[Percutaneous Interventions](#)

[Prevention & Rehabilitation](#)

European Heart Rhythm Association (EHRA)



Learning Programmes Available

[EHRA Educational Courses](#)

[View>>](#)

The screenshot shows a web browser window with the URL [learn.escardio.org/lp/EHRA\\_Course\\_Catalogue/knowledge](http://learn.escardio.org/lp/EHRA_Course_Catalogue/knowledge). The page header features the ESCeL logo (European Society of Cardiology eLearning Platform) and the title "Arrhythmias and Cardiac Pacing" by the European Heart Rhythm Association (EHRA). A navigation bar includes "Home", "Knowledge" (highlighted), and "About EHRA". A search bar is present with the text "Jens Cosedis Nielsen" and links for "Edit Account" and "Log Out". A "VIEW" dropdown menu is open, showing "GC Case Author Dashboard" and "ESCeL Home". A "Topics" list contains two items: "1. Fellows Device CP Track" and "2. Fellows EP Track". The footer contains the EHRA mission statement and copyright information.



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< Topics

**1. Fellows Device CP Track**

Courses

- Pacemakers fundamentals
- Pacing Indications - Choice of Pacing Mode
- Pacemaker timing
- Pacemaker cases
- Pacemaker cases: tips of the interpretation of pacemakers ECGs
- Pacemaker exam
- ICD fundamentals
- Primary and Secondary - Prevention of sudden cardiac death
- Specific ICD behaviour
- ICD cases
- Special clinical situations in ICD patients
- Device complications and lead extraction
- Expanding role of CRT in the management of HF patients
- CRT troubleshooting cases
- Optimization of CRT and prevention of non-responders
- Pacing and ECGs
- Indications for lead extraction

VIEW

[GC Case Author Dashboard](#)

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# EHRA webinars

Online training programme on arrhythmias



The European Heart Rhythm Association (EHRA) webinar programme on cardiac arrhythmias is designed for everyone wishing to update their scientific knowledge and get practical tips for their daily practice with the help of leading experts. Gain knowledge from the comfort of your work place or home...educational training that fits into your busy schedule!

All the webinars are reviewed for accreditation by the European Board for Accreditation in Cardiology (EBAC).

# Affiliated courses

Discover more educational and training programmes



One of the EHRA goals is to improve the level of education in the field of cardiac electrophysiology in Europe.

EHRA affiliates industry organised educational courses that meet the EHRA objectives, providing a high-level scientific content. Both "clinically" and "basic research oriented" courses may be considered for affiliation.

The affiliated courses are part of the EHRA Educational Framework, constituting 2 tracks of training, a Device Track and an Invasive EP Track.

Both tracks are centered around the EHRA Educational Courses, as mentioned elsewhere on this website. Together, they provide an extended and multi-faceted training experience for fellows and established electrophysiologists.

# Education

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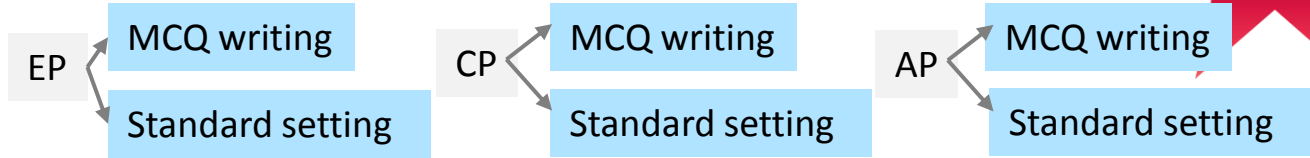
- **Allied Professionals**
  - Currently no program
  - Ongoing discussion

# Certification Physicians

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- **Electrophysiology (EP)**
  - Level 1: MCQ exam
  - Level 2: Practical experience, logbook
- **Cardiac Pacing and Implantable Cardioverter Defibrillators**
  - Level 1: MCQ exam
  - Level 2: Practical experience, logbook

# New Committee structure



- **MCQ Writing Subcommittee**

- 6 members, (EHRA certified)
- 150 new MCQ's each year (25 per member)

- **Standard Setting Subcommittee**

- 5-6 members, experienced in MCQ-writing
- ensure the quality and content of MCQ's.
- determine an approximate pass mark for this specific exam.

# Certification Physicians

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- **Level 1: MCQ exam**
  - 130 MCQ's
  - English

## 1 - THE EXAM:

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The examination is designed to be completed in 2 consecutive parts 3 hours each, with a 60 minute lunch break:

- 9:00 - 12:00: 1st part
- 12:00 - 13:00: Lunch break (lunch is provided by EHRA)
- 13:00 - 16:00: 2nd part

# Certification Physicians

## • Level 2

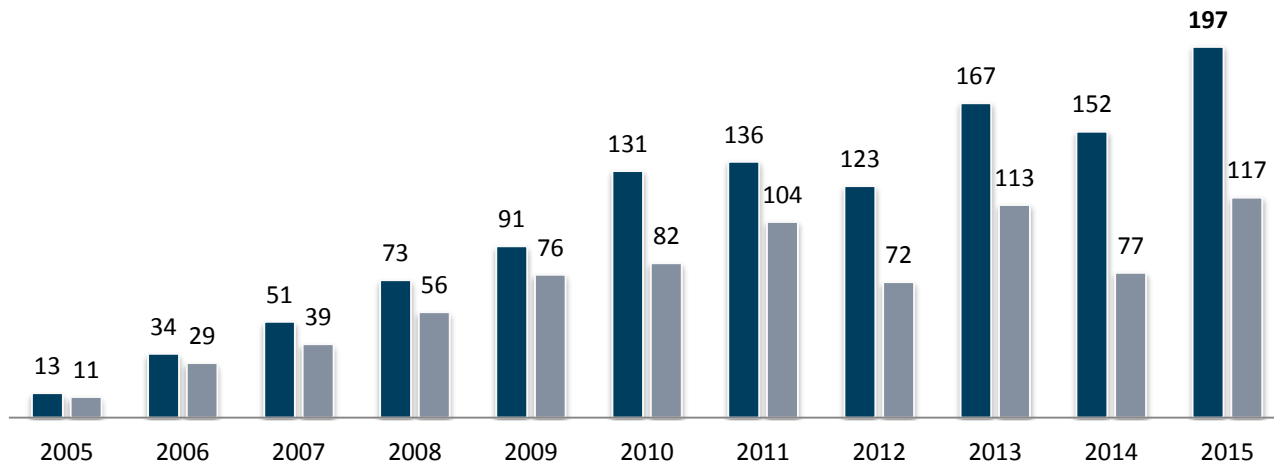
- Letter of Endorsement from the National Society
- Letter of support from a Supervisor
- List of Procedures - The logbook
  - CP 25 ICDs implantations procedures
  - CP 30 CRTs implantations procedures
  - CP 45 implantations procedures
  - CP 50 CRTs follow ups procedures
  - CP 50 devices follow ups procedures
  - CP 100 ICDs follow ups procedures

- 100 diagnostic EP studies (standalone or prior to ablation)
- 100 catheter ablations as first operator. These must consist of
  - 50 standard ablation including His bundle - max 5
  - AVNRT - min 15, max 25
  - AVRT - min 15, max 25
  - RA atrial tachycardias - min 5, max 10
  - cavo-tricuspid atrial flutter - min10, max 25
  - idiopathic RVOT VT - min 5, max 10
  - 50 complex ablation at least 30 of which are atrial fibrillation ablation - including transeptal puncture.

# Certification CP

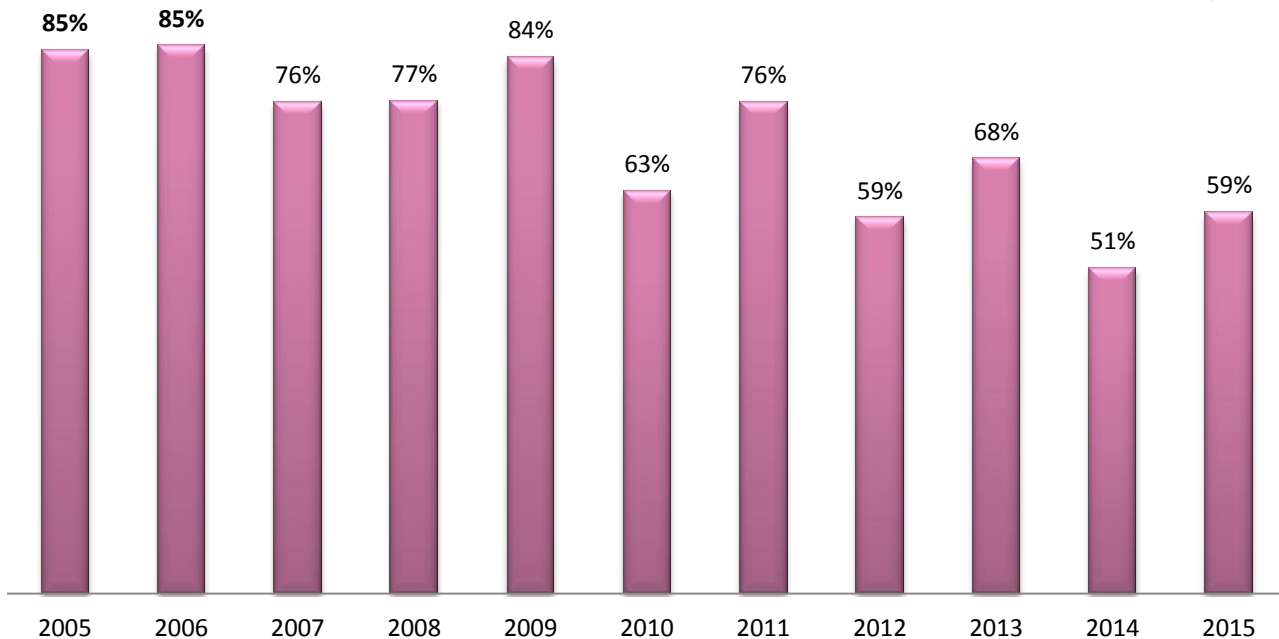
■ Written Exam Participation

■ Exam Successful





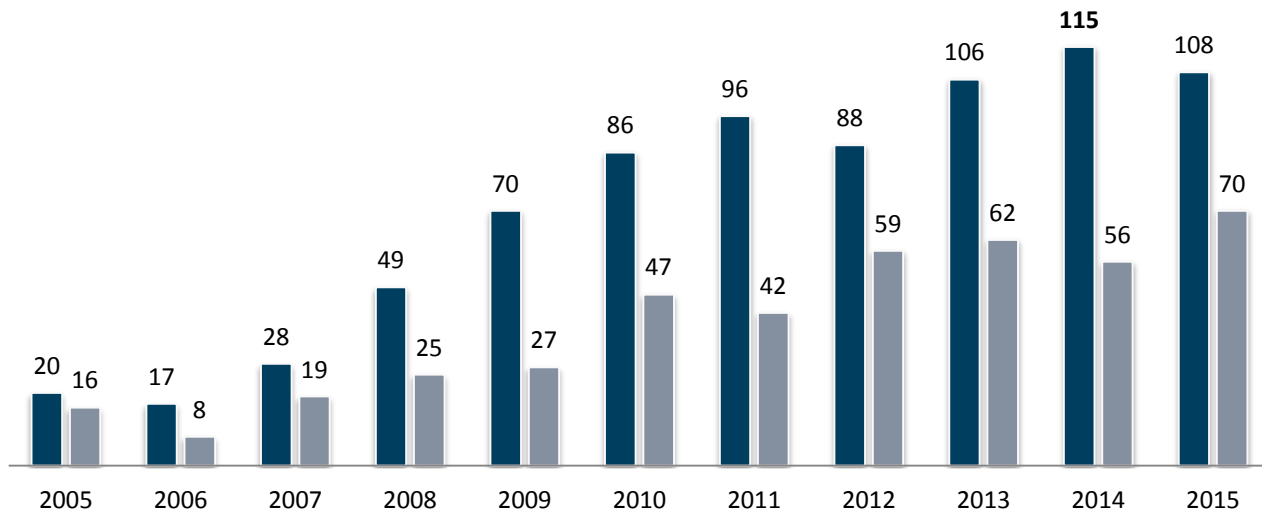
# Certification CP Success rate



# Certification EP

■ Written Exam Participation

■ Exam Successful



# Certification EP Success rate



# Certification Allied Professionals

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- **Level 1: MCQ exam**
  - 130 MCQ's
  - Cardiac pacing and ICD's

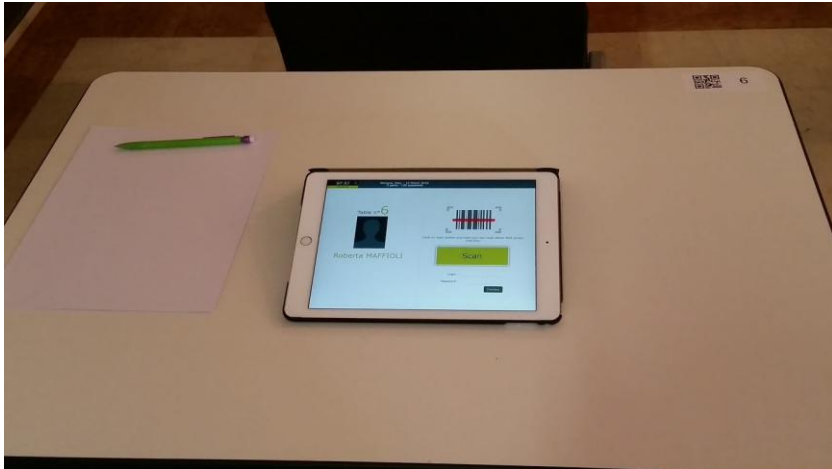


EHRA Exams next occurrences:

Exam	Language	Date	City, Country	First Time Fee	Re-sit Fee	Registration
AP	Italian	12 March 2016	Bologna, Italy	300€	200€	CLOSED
AP	English	8 June 2016	Nice, France, CARDIOSTIM EHRA EUROPACE 2016	300€	200€	OPEN - Deadline to register: 31 May 2016
AP	Dutch	2 Nov. 2016	Arnhem, Netherlands	300€	200€	Open 3 months before the exam

AP German October 2016, Berlin

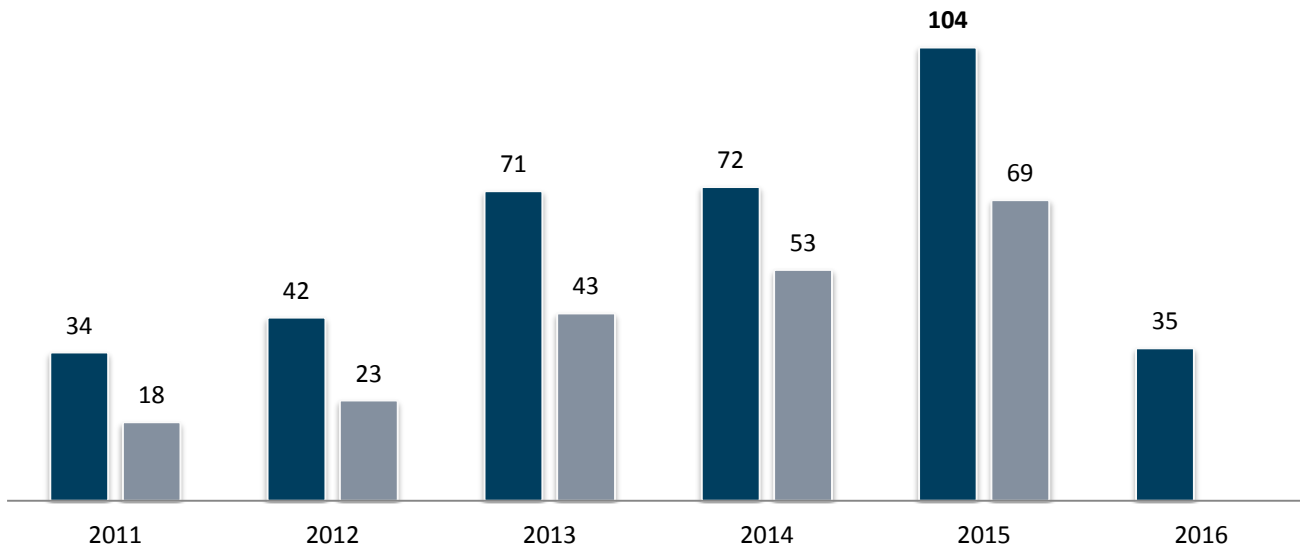
Italy, March 12th,  
AP exam



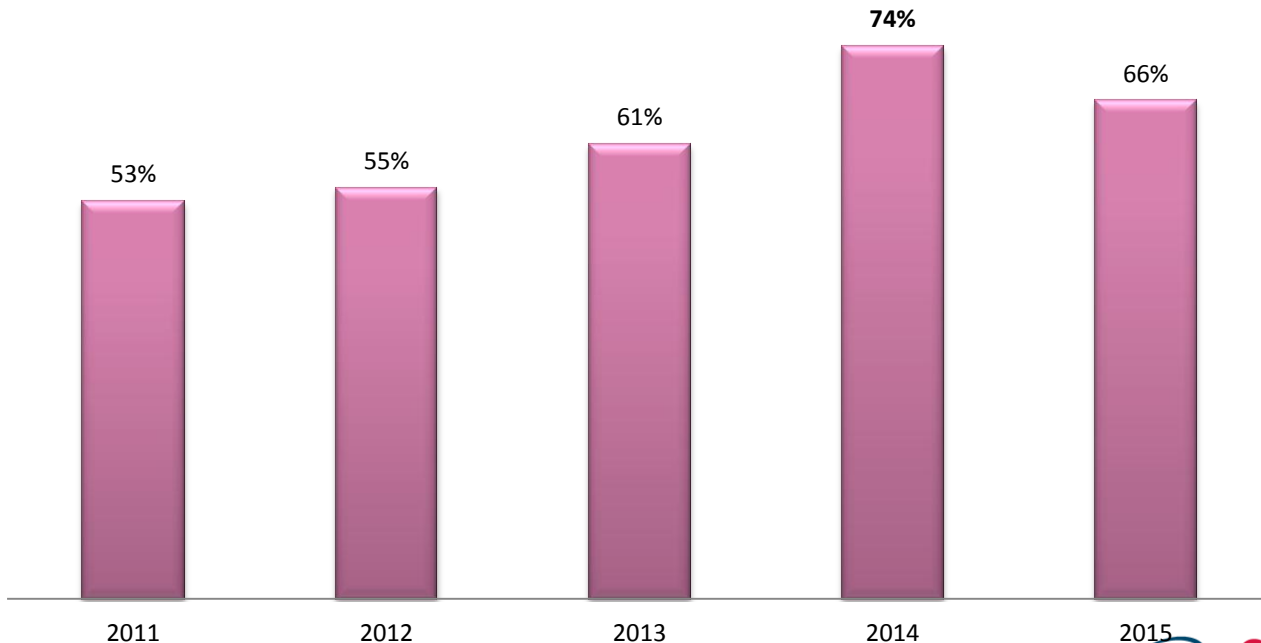
# Certification AP

■ Written Exam Participation

■ Exam Successful



# Certification AP Success rate



# What EHRA has to offer

- **Structured education for physicians in EP and CP**
- **Certification in Invasive EP and Cardiac Pacing and Implantable Cardioverter Defibrillators for physicians**
- **Certification in Cardiac Pacing and ICD for allied professionals**