

Why do we need a Core Curriculum for the Cardiologist?

Why do we need a European Exam in General Cardiology?

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5 March 2020



- Why do we need a Core Curriculum for Cardiology Training in Europe?
- What is the role of the European Exam in General Cardiology in Europe?
- How do Core Curriculum and Exam fit into the ESC Strategy?

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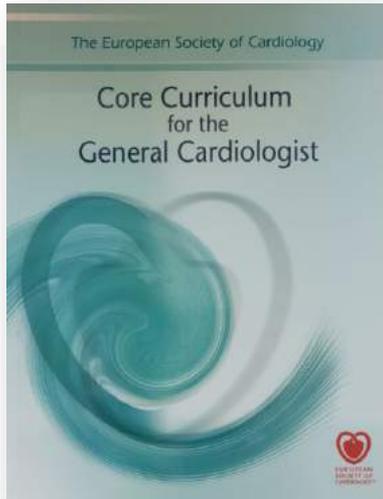
Training Framework

harmonisation for better patient care

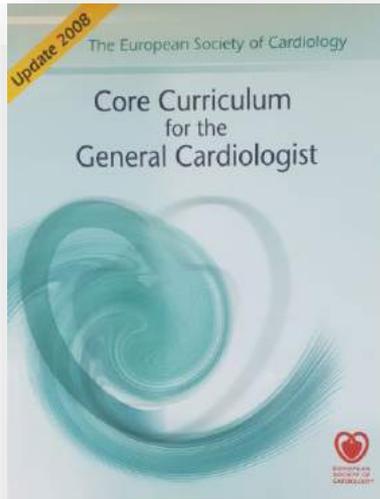
- Subsidiarity in the European Union
 - national authorities ultimately define terms of cardiology training
- The innovations and evidence underpinning cardiology are international
- The challenges to cardiovascular health are similar across Europe
- The ESC community is an important, unified innovation zone
- Mobility and cooperation critically enhances cardiology across Europe
 - Exchange of ideas, people, and best practice
 - Particularly relevant during training and formative years
- Mobility and exchange of people and ideas need a common standard

The ESC Core Curriculum for the Cardiologist

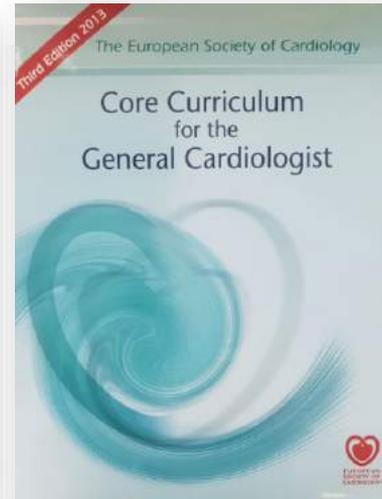
2006



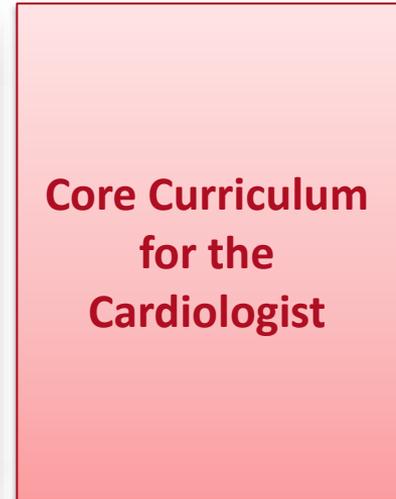
2008



2013



2020



Drivers for the 2020 update of the Core Curriculum

Since 2013, Cardiology has changed:

- Increased demands on knowledge and technical skills (interventions)
 - Digital opportunities
 - Innovations in all areas of cardiology
 - Understanding research and its impact on clinical practice
 - Competence-based assessment
 - Increasing need for teamwork and patient involvement
-
- Focus on skills and knowledge
 - Focus on assessment of competences in a clinical context
 - Involvement of trainees
 - Involvement of patients

Alignment with ESC Topic List

A coherent index for our science, education, and training

1	The Cardiologist in the wider context
2	Imaging
3	Coronary artery disease
4	Valvular heart disease
5	Rhythm disorders
6	Heart failure
7	Acute cardiovascular care
8	Prevention, rehabilitation, sports
9	Cardiac patients in other settings

→ 9 Main Chapters vs 28 in previous Core Curriculum versions

→ Alignment with ESC Topic List

→ A detailed mapping document aligning subchapters with topics will be produced as part of the update

ESC Topic List

BASICS

1. History of Cardiology
2. Clinical Skills

IMAGING

3. Imaging

ARRHYTHMIAS AND DEVICE THERAPY

4. Arrhythmias, General
5. Atrial Fibrillation
6. Supraventricular Tachycardia (non-AF)
7. Syncope and Bradycardia
8. Ventricular Arrhythmias and Sudden Cardiac Death (SCD)
9. Device Therapy

HEART FAILURE

10. Chronic Heart Failure
11. Acute Heart Failure

CORONARY ARTERY DISEASE, ACUTE CORONARY SYNDROMES, ACUTE CARDIAC CARE

12. Coronary Artery Disease (Chronic)
13. Acute Coronary Syndromes
14. Acute Cardiac Care

VALVULAR, MYOCARDIAL, PERICARDIAL, PULMONARY, CONGENITAL HEART DISEASE

15. Valvular Heart Disease
16. Infective Endocarditis
17. Myocardial Disease
18. Pericardial Disease
19. Tumors of the Heart
20. Congenital Heart Disease and Pediatric Cardiology
21. Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure

AORTIC DISEASE, PERIPHERAL VASCULAR DISEASE, STROKE

22. Aortic Disease
23. Peripheral Vascular and Cerebrovascular Disease
24. Stroke

INTERVENTIONAL CARDIOLOGY AND CARDIOVASCULAR SURGERY

25. Interventional Cardiology
26. Cardiovascular Surgery

HYPERTENSION

27. Hypertension

PREVENTIVE CARDIOLOGY

28. Risk Factors and Prevention
29. Rehabilitation and Sports Cardiology

CARDIOVASCULAR DISEASE IN SPECIAL POPULATIONS

30. Cardiovascular Disease in Special Populations

CARDIOVASCULAR PHARMACOLOGY

31. Pharmacology and Pharmacotherapy

CARDIOVASCULAR NURSING AND ALLIED PROFESSIONS

32. Cardiovascular Nursing and Allied Professions

E-CARDIOLOGY / DIGITAL HEALTH, PUBLIC HEALTH, HEALTH ECONOMICS, RESEARCH METHODOLOGY

33. e-Cardiology
34. Public Health and Health Economics
35. Research Methodology

BASIC SCIENCE

36. Basic Science

OTHER

80. Training and Education
90. European Society of Cardiology
99. Other

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EEGC – European Exam in General Cardiology

An addition and support for national certification in Cardiology

- The EEGC is developed for, by & with National Societies
- robust methodology and quality assurance
- Governed by UEMS, ESC, National Societies, and independent University
- tests knowledge, drives learning
- complements workplace-based assessments, e.g. the entrusted professional activities in the Core Curriculum
- taken during training – not an exit exam
- Mandatory and/or Statutory status in several countries
 - UK, IRE, SUI



The 2020 Edition of the EEGC

collaborative initiative

In 2020, trainees from **36 countries** are sitting the EEGC on 16 June
[600 to 700 candidates expected]

- Australia and New Zealand *pilot*
- Austria *enrolled*
- Cyprus *enrolled*
- Finland *enrolled*
- Germany *enrolled*
- Greece *enrolled*
- Ireland *enrolled*
- Latvia *enrolled*

2020 Observers

- | | | |
|------------|--------------|-----------|
| • Bulgaria | • Luxembourg | • Tunisia |
| • France | • Poland | • Turkey |
| • Israel | • Russia | |

- Lithuania *pilot*
- Malta *enrolled*
- Netherlands *enrolled*
- Portugal *enrolled*
- Spain *enrolled*
- Sweden *enrolled*
- Switzerland *enrolled*
- UK *enrolled*
- APSC (11 countries)



Entrustable professional activities (62) define the 2020 Core Curriculum for the Cardiologist



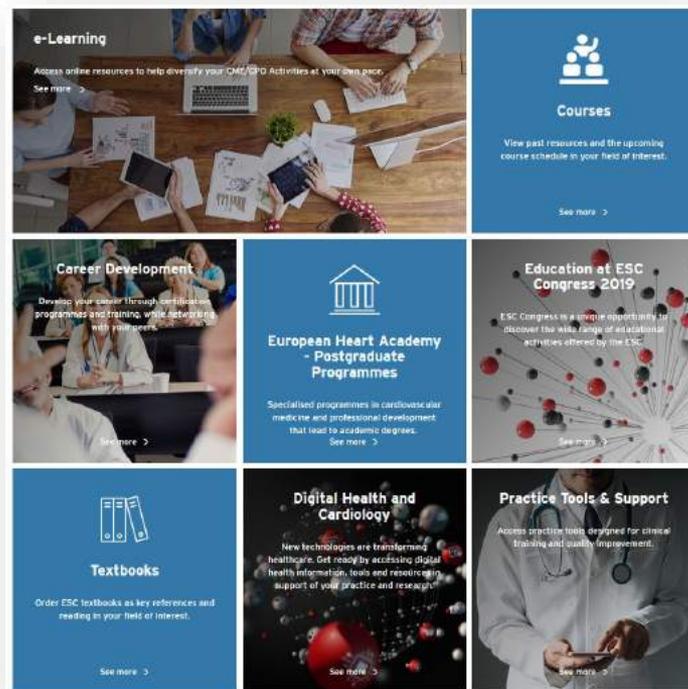
Figure 3: Formative Assessment

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- **How do Core Curriculum and Exam fit into the ESC Strategy?**

A wealth of resources & programmes

high quality evidence-based activities

Ranging from online and in-person live events to recorded sessions and digital learning and assessment modules, all ESC Educational resources are deeply rooted in ESC science and guidelines, mapped onto the Core Curriculum, and organised per the ESC Topic List.



Topical Tracks

together is better!

Novel approach to presenting educational content in a **coherent and purposeful way.**

Four Topical Leads conceived the first ever ***‘ESC Webinar Series on Diabetes’***: ensuring guidelines dissemination and implementation, by bringing in the team and multidisciplinary aspects.

➔ **Pilot is rich in lessons learned and plenty of opportunities for synergies with ESC Associations**

ESC Webinar Series - Diabetes

Topic(s): *Diabetes and the Heart: European Society of Cardiology*

For this first edition of the ESC Webinar Series, the education committee has selected the important and transversal topic of diabetes.

The ESC Webinar Series - Diabetes was designed to provide the audience with a comprehensive view of what is new on diabetes management, that will be readily applicable in everyday clinical practice.

Discover the ESC Webinar Series - Diabetes

A series of four webinars addressing the dissemination of the latest [ESC Clinical Practice Guidelines on diabetes, pre-diabetes and cardiovascular diseases](#); as well as a review of new evidence emerged from recent clinical trials presented during ESC Congress 2019.

Register now using the links below:

| Focus 1: Management of diabetes and pre-diabetes with cardiovascular disease

[On demand webinar](#)

| Focus 2: SGLT2 Inhibitors - New data and guidelines change practice

[Register Now](#)

| Focus 3: Managing diabetic patient with ischaemic heart disease

[Register Now](#)

| Focus 4: Diabetes - A cardiac disease? From risk management to treatment

[Register Now](#)

Creation of an 'ESC Education Research Unit'

demonstrating outcomes in a rigorous scientific fashion

- ESC Board & Scientific Affairs Cttee supportive of research in education.
 - ESC legal sponsor of clinical trial on education for STEEER-AF (evaluation though mixed methods including clustered-randomized clinical trial)
- Concrete materialization of the ESC 'Virtuous Circle'**

Enhancing the Blended Learning experience

innovative educational programmes tailored to specific needs

One of STEER-AF's many innovations, conception of Blended Learning & Longitudinal programmes:

- **EEGC – all you wanted to know**: 4-month programme to support trainees registered to EEGC exam, including mock exams, testimonials from past trainees, practical information on exam format and test centres, tutorials from Contributors to the exam and access to a wealth of key ESC resources.
- **Medical Device Regulation programme**: gap analysis on awareness of new EU regulation, 8-weeks programme including 2 live webinars, pre/post testing and follow-up assessment to evaluate translation in practice.
- **Good Clinical Practice and Data Collection**: in progress, programme to aim for a Certification in Good Registry Practice, blend of online and face-to-face events, with a certifying test to validate and issue Certificate.

Launched 1 Feb 2020
to all EEGC candidates

April to July 2020

Expected in autumn
2020

ESC Campus Project

Reinventing cardiovascular learning

- A home for exchange, education, and learning in the ESC
- A base for the delivery of blended and distance learning
- ESC Board working on a dedicated Task Force to define ESC Campus strategic objectives.
- State-of-the-art simulation and training centres currently visited by project team to benchmark options for ESC Campus.

