



# Putting it all together:

from the ESC core curriculum to the EEGC and beyond

- what the exam is, how it works and what impact it has...

**Chris Plummer**

UEMS vice-president for training, EEGC board chair





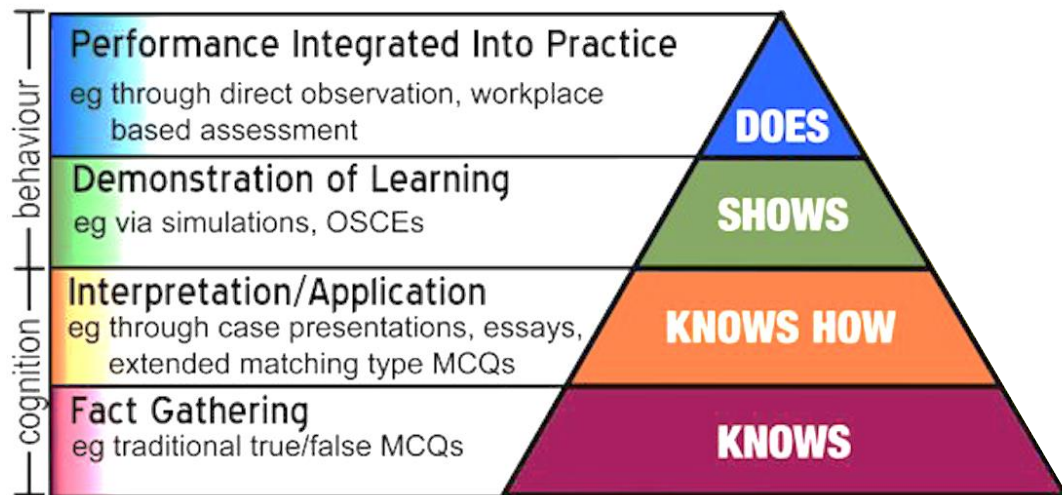
# conflicts of interest

- none



## MILLER'S PRISM OF CLINICAL COMPETENCE (aka Miller's Pyramid)

it is only in the "does" triangle that the doctor truly performs



# EEGC structure



- multiple choice examination
  - 120 questions
  - 3 hours
  - computer terminals in PearsonVUE centres
- current best evidence - mapped to the ESC curriculum
  - ESC guidance, ESC textbook, published clinical studies
- cardiology scenarios → question → best of 5 answers
  - 70% (84) text only
  - 20% (24) still image
  - 10% (12) video
  - UK candidates - 6 UK-specific questions to fulfil GMC regulatory requirements

# EEGC governance



EUROPEAN  
SOCIETY OF  
CARDIOLOGY



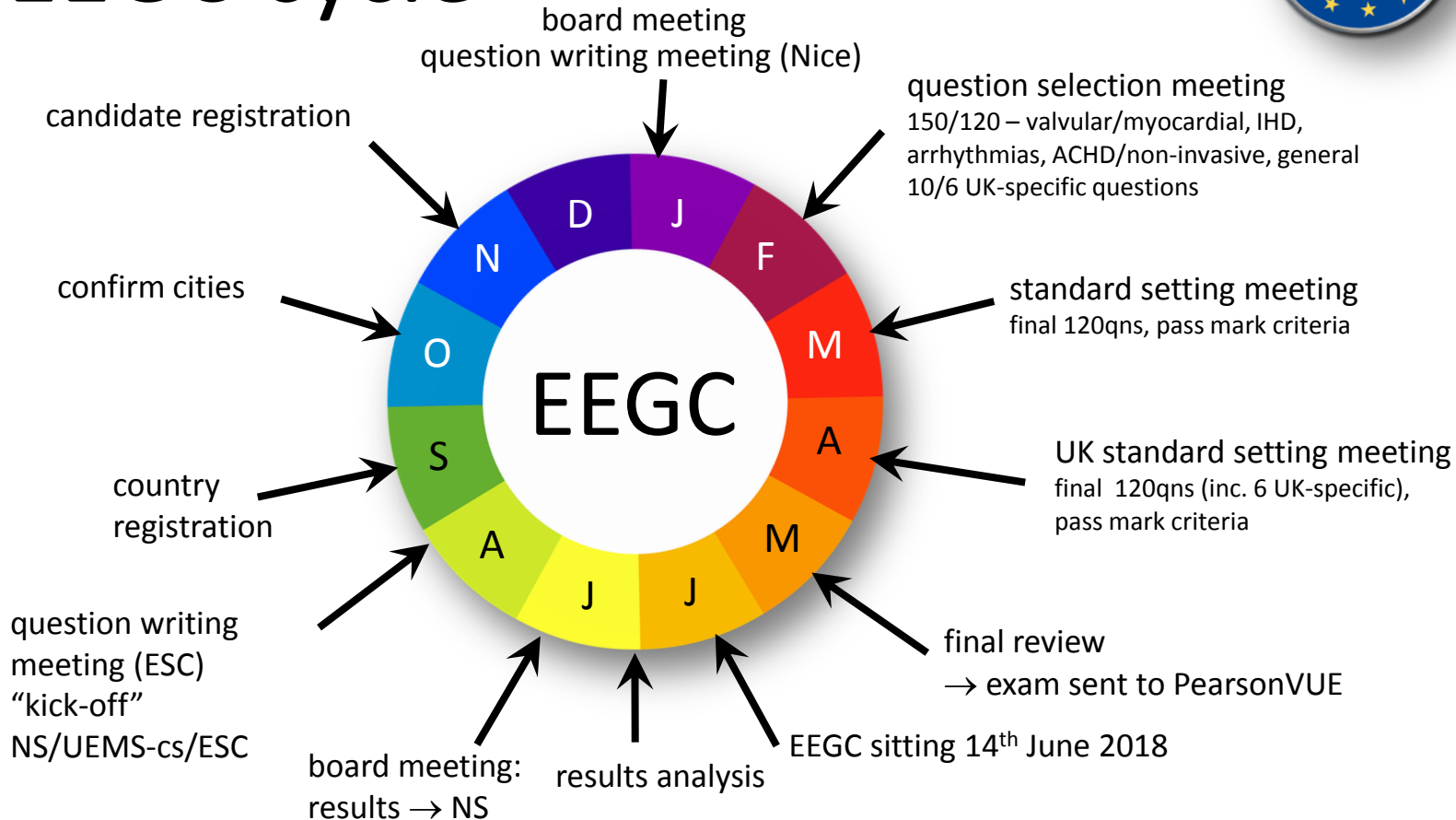
- Austria *observer*
- Cyprus *first year*
- Finland *first year*
- Germany *pilot*
- Greece *enrolled*
- Ireland *enrolled*
- Latvia *observer*



- Malta *enrolled*
- Netherlands *enrolled*
- Portugal *enrolled*
- Spain *enrolled*
- Sweden *first year*
- Switzerland *enrolled*
- UK *enrolled*



# EEGC cycle



# EEGC construction



- all stages of exam construction supported by computer platform
  - images & video
  - standardisation of question format
  - on-line collaboration
  - real-time editing of questions
  - systematic question selection & standard setting
  - local delivery
  - question performance statistics
  - data integrity





Authoring

 Chair



Review



Exam



Pre Selection



Selection



### Clinical Context

A 56-year-old man was admitted with chest pain. His ECG is shown.

### Associated media

Add [+]






### Question

Enter a new question - It's recommended not to exceed 500 characters, in order to have an optimized display on exam tablets.


### Answers

▼ Reorder answers in alphabetical order

Add [+]

- |          |                    |                       |   |
|----------|--------------------|-----------------------|---|
| <b>A</b> | Enter a new answer | <input type="radio"/> |  |
| <b>B</b> | Enter a new answer | <input type="radio"/> |  |
| <b>C</b> | Enter a new answer | <input type="radio"/> |  |
| <b>D</b> | Enter a new answer | <input type="radio"/> |  |
| <b>E</b> | Enter a new answer | <input type="radio"/> |  |

 Save

 Save and preview

Ref.: **21287**

### Status

Last Update 2018-08-25 12:48:26 by Plummer (Draft)

### Tags

Topic \*

8. Acute Coronary Syndromes (ACS) ▼

Difficulty level

Select a difficulty level ▼

Clinical context length

Select a clinical context length ▼

Keywords

Add [+]

References

Add [+]

Demo

This question can be used for a demo.

Country specific questions

UK specific

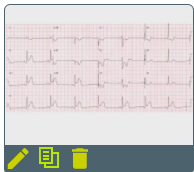
### Comments

Add [+]

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**B** Enter a new answer



**C** Enter a new answer



**D** Enter a new answer



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Select a difficulty level ▼

Clinical context length

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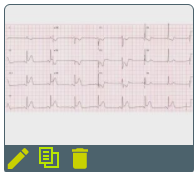
Comments

Add [+]

### Clinical Context

A 56-year-old man was admitted with chest pain. His ECG is shown.

### Associated media



Add [+]

### Question

What is the most appropriate treatment?

Rich Text Editor, question

### Answers

▼ Reorder answers in alphabetical order

Add [+]

**A** Enter a new answer



**B** Enter a new answer



**C** Enter a new answer



**D** Enter a new answer



**E** Enter a new answer



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Add [+]

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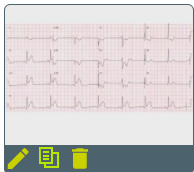
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### Clinical Context

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### Associated media



Add [+]

### Question

What is the most appropriate treatment?

### Answers

▼ Reorder answers in alphabetical order

Add [+]

- A** primary PCI
- B** thrombolysis
- C** aspirin
- D** clopidogrel
- E** intravenous heparin



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Save and preview

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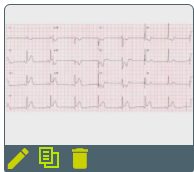
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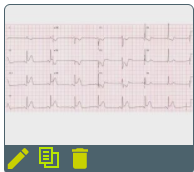
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### Question

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Add [+]

- |          |                     |                                  |   |
|----------|---------------------|----------------------------------|---|
| <b>A</b> | aspirin             | <input type="radio"/>            |  |
| <b>B</b> | clopidogrel         | <input type="radio"/>            |  |
| <b>C</b> | intravenous heparin | <input type="radio"/>            |  |
| <b>D</b> | primary PCI         | <input checked="" type="radio"/> |  |
| <b>E</b> | thrombolysis        | <input type="radio"/>            |  |

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References

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Country specific questions

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#### Details

Ref.: **21287**

Topic: **8. Acute Coronary Syndromes (ACS)**

Clinical context length:

Difficulty level:

Keywords:

References:

Demo:

Country specific questions:

Used:

**There is no statistical information!**

Creation: **2018-08-25 12:48:26** by **Plummer**

Last Update 2018-08-25 13:11:39 by **Plummer (Draft)**

Comments

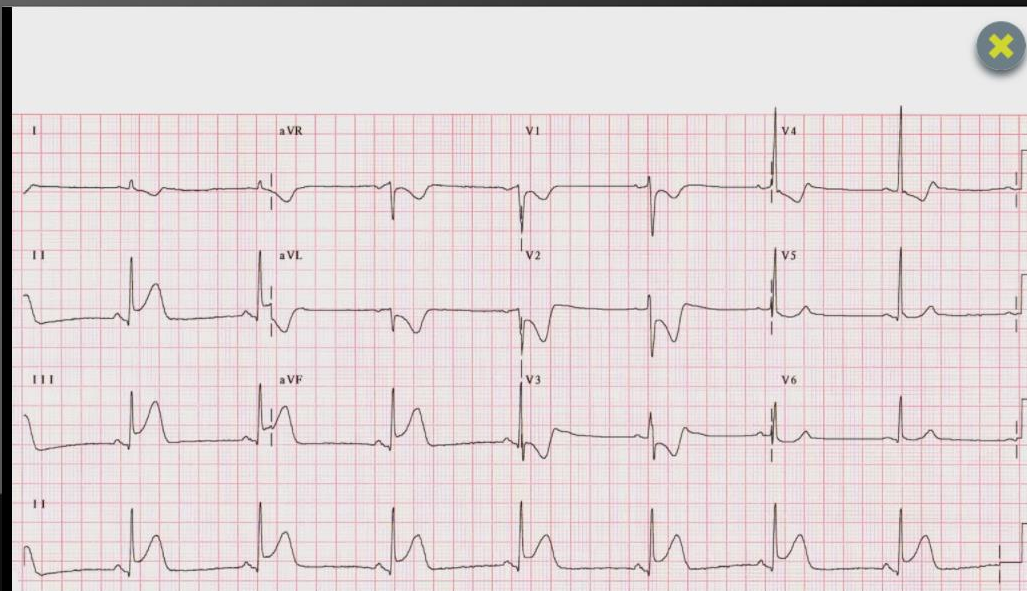
Add [+]

#### Statistical information

#### Selection

Draft

Submitted



## Details

Ref.: **21287**

Topic: **8. Acute Coronary Syndromes (ACS)**

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Comments

Add [+]

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Selection

Draft

Submitted





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Creation: **2018-08-25 12:48:26** by **Plummer**

Last Update 2018-08-25 13:11:39 by **Plummer (Draft)**

Comments

Add [+]

## Statistical information

## Selection

Draft

Submitted



Authoring

Chair



Review



Exam



Pre Selection




Selection


# Review



EEGC 2019 MCQ Review Meeting

 Meeting End 25/08/2018 11:30

 **Group 2**

 number of questions : 31

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# Review

Plummer Chris

 logout











































EEGC 2019 MCQ Review Meeting > Group 2

Search reference, question, clinical context, keywords



31 / 31 results

200

Ref.	Clinical Context	Question	Topic	Author	Status	Notes
20006	A 32-year old man with severe symptomatic b...	What is the most appropriate pre-operative in...	15. Valvular heart di...	Maryanne Caruana	Submitted	  
20533	These are apical four-chamber cines from the ...	Which genetic syndrome is most commonly as...	13. Congenital Heart ...	Maryanne Caruana	Submitted	  
21099	A fit and healthy 25-year old man was seen in...	What is the most likely diagnosis based on the...	1. History Taking and...	Maryanne Caruana	Submitted	  
21100	A 66-year old man was seen in the cardiology...	Which is the most appropriate first antihypert...	7. Cardiovascular pre...	Maryanne Caruana	Submitted	  
21101	A 23-year old healthy man was seen in the Ac...	What is the most likely arrhythmia to explain t...	1. History Taking and...	Maryanne Caruana	Submitted	  
21102	A 70-year old man was seen in a community ...	What antithrombotic treatment is indicated for...	25. Peripheral Artery ...	Maryanne Caruana	Submitted	  
21198	A 23-year old male black professional soccer ...	What is the most appropriate next step in the ...	19. Physical activity a...	Kjell Christer Nikus	Submitted	  
21200	A 23-year old male black professional soccer ...	What is the most appropriate next step in han...	19. Physical activity a...	Kjell Christer Nikus	Submitted	  
21201	A 69-year old man with a history of hypertens...	Based on the clinical history and ECG findings...	1. History Taking and...	Kjell Christer Nikus	Submitted	  
21205	An 18-year old man complained of palpitation...	What is the most probable diagnosis?	10. Myocardial Diseas...	Kjell Christer Nikus	Submitted	  
21207	A 28-year old female athlete underwent a hea...	Which of the following ECG changes is most p...	19. Physical activity a...	Kjell Christer Nikus	Submitted	  
21210	A 62-year old woman with coronary artery dis...	Which ECG lead(s) will most probably show m...	9. Chronic Ischaemic ...	Kjell Christer Nikus	Submitted	  
21217	A 71-year old woman was found lying on the ...	From an diagnostic point, what would be the ...	8. Acute Coronary Sy...	Kjell Christer Nikus	Submitted	  
21219	A 78-year old woman with hypertension and t...	What was the most probable etiology of her E...	8. Acute Coronary Sy...	Kjell Christer Nikus	Submitted	  



A 56-year-old man was admitted with chest pain. His ECG is shown.

What is the most appropriate treatment?

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C intravenous heparin

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E thrombolysis

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Used:

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Comments

Add [+]

#### Statistical information

#### Selection

**Need Revision**

**Accepted**

**Rejected**



Authoring



Review



Exam



Pre Selection



Selection



Chair

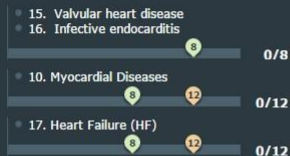
# PreSelection

Beannic Sandrine

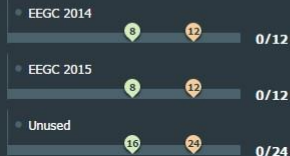
## BluePrint



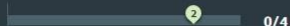
### Topic



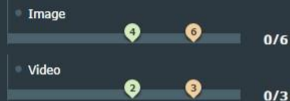
### Used



### Difficulty level



### Media



Exam GC 2017 > Category 1 - Valvular and Myocardial Disease

Search reference, question, clinical context



To do 35

Selected 0

Unselected 0

Reserve 0

35 / 35 results

25

Ref.	Clinical Context	Question	Topic	Author	
4630	A 23-year-old man was seen in the clinic with a 3-month history of pal...	What is the most likely diagnosis?	10. Myocardial Diseases	Administrator	
5401	A 28-year-old man had an electrocardiogram as part of his applicatio...	What is the most likely diagnosis?	10. Myocardial Diseases	Administrator	
5416	A 26-year-old man attended the Cardiology clinic having been found t...	What is the most appropriate management?	10. Myocardial Diseases	Administrator	
5469	A 65-year-old woman was referred for evaluation of dyspnoea and a c...	Which is the cause of the mitral regurgitation?	15. Valvular heart disease	Administrator	
5517	A 56-year-old man presented with heart failure. He had signs of aorti...	What is the most appropriate management?	15. Valvular heart disease	Administrator	
7732	A 54 year-old woman with a previous history of chronic heart failure c...	What is the next appropriate step in management?	17. Heart Failure (HF)	Administrator	
8425	A 45-year-old woman with no cardiovascular risk factors presented wi...	Which is the most appropriate next step in her management?	10. Myocardial Diseases	Administrator	
8626	A 45-year-old man was reviewed in the outpatient department. He ha...	What is the most likely diagnosis?	10. Myocardial Diseases	Administrator	
8627	A 55-year-old woman presented to the emergency department with s...	What is the most likely diagnosis?	10. Myocardial Diseases	Administrator	
9122	A 78-year-old man with a history of hypertension, heart faillure with p...	What is the most likely cause of his heart faillure?	17. Heart Failure (HF)	Administrator	
9455	A 74-year-old woman underwent CRT-D implantation for severe left v...	What is the most likely cause of her worsening symptoms?	17. Heart Failure (HF)	Administrator	
10946	A 32-year-old woman with aortic stenosis caused by a congenital bicu...	What would you recommend?	15. Valvular heart disease	Administrator	
20007	A 35-year-old man was referred for aortic valve replacement for symp...	What is the most appropriate strategy to assess for coronary artery di...	15. Valvular heart disease	Maryanne Caruana	
20013	A 35-year-old woman was admitted with a 2-week history of fever an...	What is the most appropriate next management step?	16. Infective endocarditis	Alexander Borg	
20014	A 35-year-old woman was admitted with a 2-week history of fever. Sh...	What is the best management plan?	16. Infective endocarditis	Alexander Borg	
20022	A 60-year-old farm worker was admitted with shortness of breath. On...	What is the most appropriate initial treatment?	16. Infective endocarditis	Rafael Carlos Vidal Perez	
20023	A 23-year-old woman who had transposition of the great arteries with...	What is the most appropriate treatment 1 hour prior to her procedure?	16. Infective endocarditis	Rafael Carlos Vidal Perez	
20024	An 80-year-old woman presented to outpatients with a 6-week histor...	The identification of which organism should prompt gastrointestinal in...	16. Infective endocarditis	Rafael Carlos Vidal Perez	
20025	A 50-year-old farm worker presented with a low-grade fever and a re...	Which organism is the most likely cause of his endocarditis?	16. Infective endocarditis	Rafael Carlos Vidal Perez	
20035	A 75-year-old man with chronic heart failure presented with sudden o...	What is the most appropriate next step in his management?	17. Heart Failure (HF)	Rafael Carlos Vidal Perez	



A 56-year-old man was admitted with chest pain. His ECG is shown.

What is the most appropriate treatment?

A aspirin

A

B clopidogrel

B

C intravenous heparin

C

D primary PCI

D

E thrombolysis

E

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Comments

Add [+]

## Statistical information

### Selection

Select

Unselect

Reserve



# PreSelection

Beannic Sandrine

Exam GC 2017 > Category 1 - Valvular and Myocardial Disease

Search reference, question, clinical context



To do <sup>21</sup>

Selected <sup>7</sup>

Unselected <sup>4</sup>

Reserve <sup>3</sup>

35 / 35 results

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## BluePrint



10/36

### Topic

- 15. Valvular heart disease
  - 16. Infective endocarditis
- 3/8
- 10. Myocardial Diseases
- 5/12
- 17. Heart Failure (HF)
- 2/12

### Used

- EEGC 2014
- 0/12
- EEGC 2015
- 0/12
- Unused
- 10/24

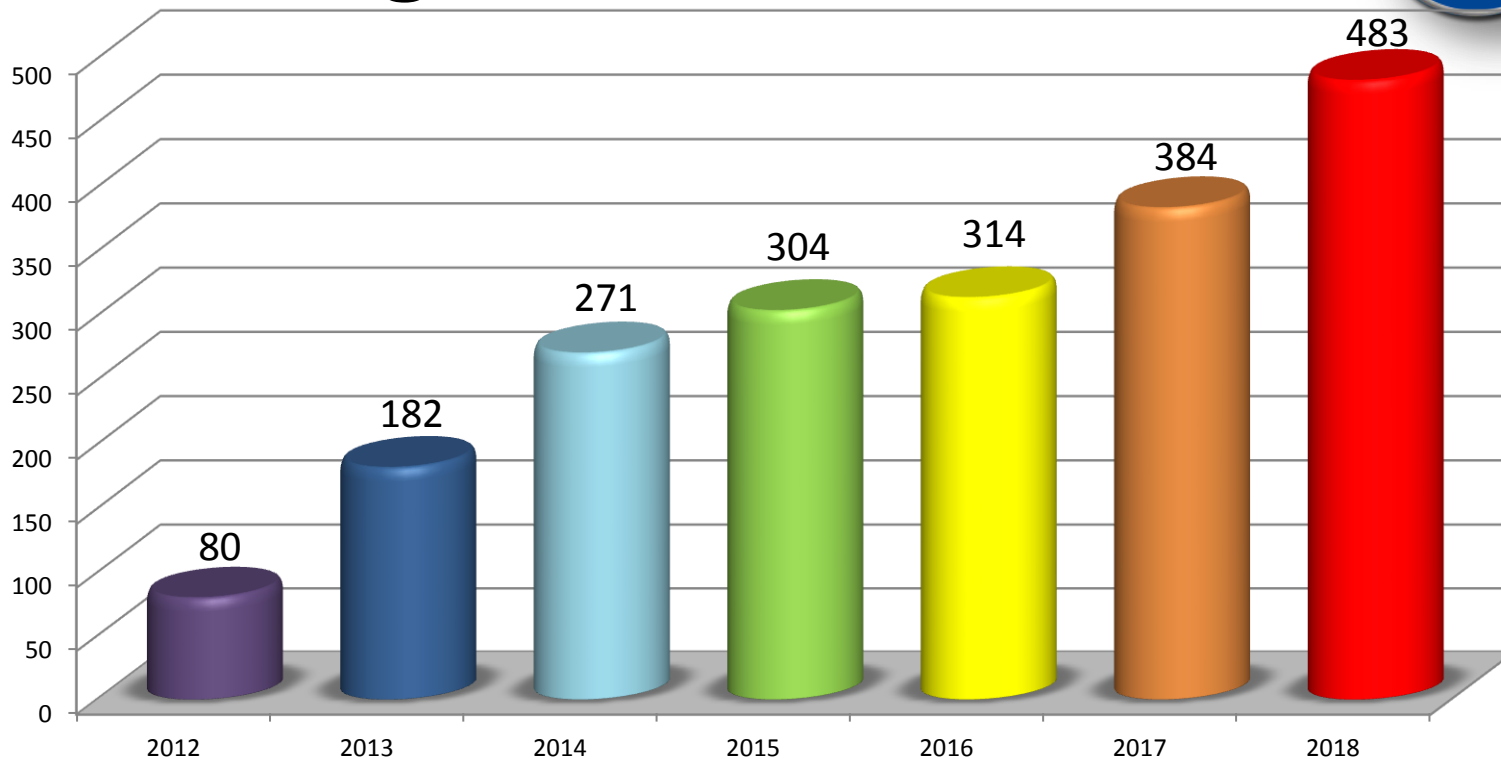
### Difficulty level

0/4

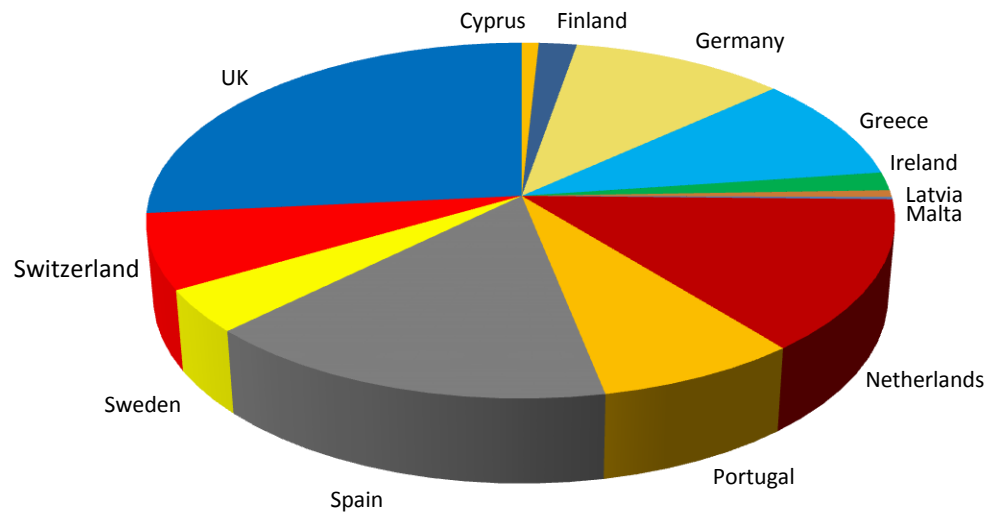
### Media

- Image
- 4/6
- Video
- 3/3

# EEGC registrations



# EEGC registrations

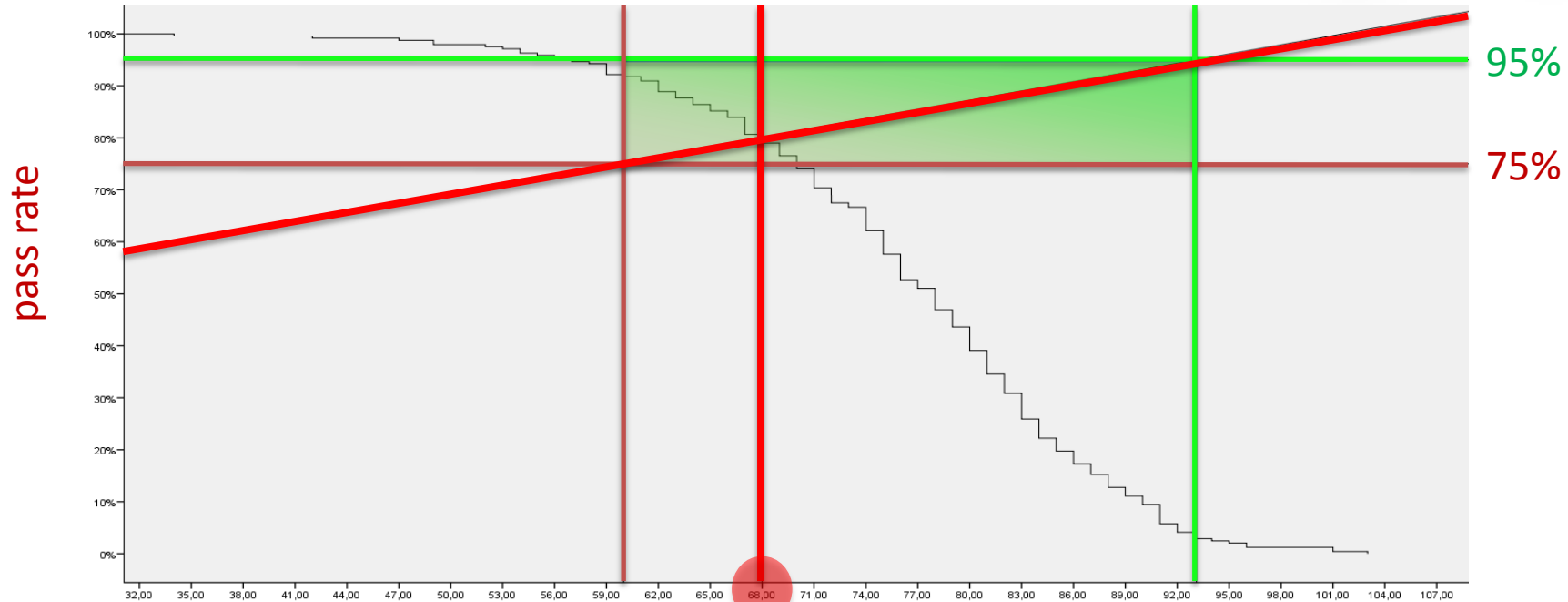


# EEGC question performance



- review all questions with <math><30\%</math> correct (8 questions)
- review all questions with negative correlation (2 questions)
- no questions excluded in 2018.

# EEGC pass mark



# EEGC conclusions



- high-quality general cardiology exam
- strong structure and governance
  - supported by UEMS, ESC, national societies, independent University
- tests knowledge and drives learning
- delivered on computer in secure centres near to candidates
- growing
- excellent CPD!

# EEGC impact



- aligned with UEMS and ESC strategic goals
- benchmark – cardiology and wider
- facilitates best educational and clinical practice
- infrastructure for other exams
- close collaboration between UEMS, ESC, NSs
- close collaboration between cardiologists.