

7th ESC Education Conference

“From competence to good clinical care”

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The role of ESC Core Curriculum in Cardiology Training

- „Harmonising and optimising the training of Cardiologists are identified as key steps ... to improve the practice of Cardiology“
- „The European Curriculum provides a reference point by defining the minimum training standards required.“

Training Survey 2016: „Where are the limitations“?

- Assessment of skills in practice is challenging
- Debate over numbers of procedures completed versus the quality of the skill obtained
- Lack of systems in place for quality control of training

Levels of competence: minimum numbers

EBSC Update of Chapter 6,
UEMS Charter of Medical Training, 2006

Level I

Experience of selecting appropriate diagnostic modality, does not include performing a technique

Level II

Practical experience but not as independent operator

Level III

Is able to independently perform the technique or procedure unaided

Technique	Number	Level of competence
ECG	1000	Level III
Ambulatory ECG	200	Level III
Exercise ECG testing	300	Level III
Ambulatory BP monitoring	100	Level III
Echo-Doppler studies	350	Level III
Transoesophageal echocardiography	50	Level II
Stress Echocardiography	50	Level II
Nuclear studies	50	Level II
Cardiac CT	50	Level II
MRI	50	Level II
Coronary and LV angiography	300	Level III
Percutaneous Intervention	50	Level II
Temporary pacemaker implantation	25	Level III
Pacemaker/ICD programming	50	Level II
Pacemaker implantation	50	Level II
ICD implantation	30	Level I
CRT implantation	10	Level I
Electrophysiological studies	50	Level II
Atrial Flutter/Atrial Fibrillation ablation	10	Level I

ESC Training Survey 2016

25 countries responded

Minimum numbers of procedures requested for coronary angiography:

- Range of numbers: 20-400
- Level III: n=14, 20-300
- Level II: n=9, 20-500
- Level I: n=1, 150

10 countries responded

“no minimum numbers stipulated”

Country (n=25)	Level I	Level II	Level III
Albania		500	300
Norway		150	150
Portugal		300	
Israel	100	20	
Turkey	100	200	200
Finland		200	100
Spain		200	
Netherlands		total required: 75	
Poland	200	100	
Austria		60	240
UK			250
Georgia		100	
Germany			300
Latvia	400		50
Bulgaria		140	20
Romania	30		200
Macedonia		325	
Slovakia		100	
Switzerland	50	50	
Italy	150		
Lithuania	30	20	150
Egypt			30
Cyprus			300
Estonia			300
Tunisia		400	



ESC

European Society
of Cardiology

Training curricula in Europe

- Very heterogeneous, dependent on national legislation
- ESC Core Curriculum provides a reference for member NCS
- ESC may support NCS in advocating the ESC Core Curriculum to be adopted by national authorities

Close collaboration with NCS is key to promote and implement the Core Curriculum on the national level