THE NEED FOR SHARED STANDARDS IN PGM SpecialistTraining: UEMS PROPOSAL

current challenges and opportunities

for harmonization of postgraduate specialist medical training in Europe

Zlatko FRAS, MD, PhD, FESC

President – UEMS, European Union of Medical Specialists Specialist in Internal Medicine – Cardiology&Vasc.Med.

Medical Director, UMC Ljubljana – Div Internal Medicine Assoc.Professor, Medical Faculty – University of Ljubljana Chairman, Committee for Specialist Postgraduate Training Medical Chamber of Slovenia



<u>Union Européenne des Médecins Spécialistes</u> (European Union of Medical Specialists)

- Founded in 1958, a year after the Treaty of Rome
- The oldest among the European Medical Organisations
- Represents approx 1,4 million specialist doctors
- 30 full members (NMAs), 5 associated members
- Non-governmental organisation
- UEMS is registered under Belgian law
- Secretariat (staff 4) in Brussels

VISION (UEMS STRATEGY 2008)



Standing Committee for CME





Keywords in Europe...

Mobility !

- Free movement of students
 - Bologna process
- Free movement of doctors
 - Directive on Recognition of Qualifications (new version in 2012?)
- Free movement of patients
 - Directive on Health Care Services (to come?) –
 recently the draft of the <u>Directive on Cross Border</u> Health Care was issued (approved by 2014?)



Health and the EU



- Subsidiarity the organisation and delivery of health care is the responsibility of each member state
- Subsidiarity and <u>medical specialist training</u>:
 - national rules and regulations prevail
 - not as in educational matters where the EU can have effects
 - directives can be introduced
 - difficulties to implement them at the national level
- **Co-ordination** of health issues is **difficult** at the European level



Consulation with other European Medical Organisations: AEMH – CEOM – CPME – EANA –

PWG – UEMO

The EU institutional triangle (simplified)



- Charter on Continuing Medical Education (1994)
- The European Training Charter (1995)
- Charter on Quality Assurance in Specialist Practice in EU (1996)
- Charter on Visitation of Training Centres (1997)
- Charter on CPD Basel Declaration (2001)
- Policy Statement on Assessments during PGT (2006)



Ref. UEMS, 2006

Medicine: Art & Science in motion

- Need for regular knowledge and skills renewal
- Notions of: Continuing Professional Development Competence-based Training
- Directives on the recognition of professional qualifications patient's rights in cross-border healthcare

Trusting Doctors' competence

An issue of

• Patient Safety

• Quality of care

Competence-based Training

• Knowledge

• Skills

• Attitude



= COMPETENCE

The 7 competencies

- **1.** Communication
- 2. Problem solving
- 3. Applying knowledge and science
- 4. Patient examination
- 5. Patient management / treatment
- 6. Using the social and community contexts of health care
- 7. (Self)-Reflection

Educational process



Specialist training in Europe as a whole - main issues for harmonization (accreditation?)

- <u>Programmes</u>: contents, theory vs. practice, accreditation systems
- <u>List of competencies</u> for different groups of HC professionals?
- <u>Assessments</u>/examinations (when, what and how) "European" exams?
- <u>Certification, Licensing, Titles</u>
- New technologies development and <u>new professions</u>?
- <u>Way of practicing</u> (how much professional freedom?)
- <u>Working time</u>?

Harmonization of PGSMT at the European level

- Establish standards of postgraduate medical education & training
 - Setting of standards and requirements
- Quality assurance

Certification

European core curricula



Educational process



Assessment & Certification...

Professionalism

Decision making, communication and leadership are core competencies for Medical Specialists.

Continued Medical Education (CME) and Continued Professional Development (CPD) are generally accepted performance metrics for professionalism.

Multidisciplinary team training in realistic environment allows Medical Specialists to train and be assessed by colleagues. Reflection upon outcome, the trainee is likely to improve behaviours and attitudes.

Tools: log of CME/CPD, assessment using multi-source feedback (360° Appraisal), scenario based simulation training and assessment

IVIS. CUITICUIUIII, CUUCALIVIIAI CUITCIIL, MCV 3

...supported electronically



Adapted from: Mills P, Kearney P, et al. EBSC, 2008

e-Platform Pilot Project

• Pilot Project agreed for a period of 2 years with Orzone

• Specialties involved:

Anaesthesiology

Cardiology

Intensive Care Medicine

Radiology

• After evaluation, possible extension to other specialties

Key functionalities and features

Trainee

- Logbook for procedures and activities
- Access to up to date European/National educational content
- Unlimited amount of formative tests
- Overview of training program through curriculum planner

Trainer

- Structured training program through curriculum planner
- Continuous reports on trainees' progress
- Less need for gathering educational material

Key functionalities and features

Specialist

- Logbook for procedures for future revalidation process
- Logbook of CME/CPD activities
- Access to subspeciality curriculum, guidelines and formative tests

Key functionalities and features

EU/National Administrator

- User friendly administration for content creation
- Simplified process for MCQ creation and approval process
- Creation of unlimited amount of formative and summative tests

National Authority / National Society

- Facilitates integration of National/European curriculum
- National reports of trainees' performance metrics
- Quality assurance
- Summative tests easily administered

Dr. Peter Andersson

2

Search

rch Help



Curriculum planner

All Active			Month	Timescale:	Year
	Today: Dec 15				
graphy	$\circ \circ \circ$				
		13 Congenital Heart Disease	in Adult Patients		¢
09 Chronic Isc	chaemic Heart D	isease ම	$\bigcirc \bigcirc \bigcirc \bigcirc$		
			10 Myocardial Dise Topic not started	ease	
Dec		Jan	Feb	Ma	r

Recent events

All To do	3 Tes	sts 🔨 Activities 🔕
Date	Туре	Event
Yesterday	۲	Approved: Ambulatory ECG
Yesterday	۲	Approved: Ambulatory ECG
091201	۲	Approved: ECG
091129		Passed: Formative test 06, Topic 09

Calendar

	\odot) De	ecemb	er 200	09	$\mathbf{\mathbf{\omega}}$	
	М	т	W	т	F	s	S
v49	1	2	3	4	5	6	7
v50	8	9	10	11	12	13	14
v51	15	16	17	18	19	20	21
v52	22	23	24	25	26	27	28
v53	29	30					

Log out

Curriculum news

Rural STEMI Patients Benefit from Routine Early PCI Post-Thrombolysis

European Society of Cardiology 090904 Patients with ST segment elevation myocardial infarction (STEMI) who live in remote areas and receive initial thrombolysis fare better...

FAME 18-Month Data: FFR Continues to Improve Outcomes vs. Angiography

Cardiology Bulletin

090904 In an 18 month update of the FAME trial, use of fractional flow reserve (FFR) measurement to guide percutaneous coronary intervention...

In Pilot Study, EPO Improves Ejection Fraction in Cardiomyopathy Patient

Medinews Network

090904 Use of low dose epoietin β (EPO) improves ejection fraction without any adverse events in cardiomyopathy patients following percutaneous...

Positive Signe from Phase 2 Trial of Factor Xa



ESC General Cardiology Core Curriculum

Curriculum information

The Core Curriculum for the General Cardiologist, first published in 2006, expands on the syllabus by defining; teaching, learning and assessment methods. The Update 2008 is now available following consultation with all ESC Consituent Bodies.

More on the curriculum

- Foreword and Introduction
- Rationale
- General Aspects of Training in the Specialty
- Assessment methodology

Learning objectives

- Knowledge
- Skills
- Professionalism
- Levels of competence

Topics

- 01 History taking and clinical examination
- 02 The Electrocardiogram: standard ECG, amb...
- 03 Non Invasive Imaging Echocardiography, ...
- 04 Invasive Imaging Cardiac Catheterisation ...
- 05 Genetics
- 06 Clinical Pharmacology
- 07 Cardivascular Disease Prevention
- 08 Acute Coronary Syndromes (ACS)
- 09 Chronic Ischaemic Heart Disease
- 10 Myocardial Disease
- 11 Pericardial Disease
- 12 Cardiac Tumours
- 13 Congenital Heart Disease in Adult Patients
- 14 Pregnancy and Heart Disease

Educational material

Acute and Chronic Heart Failure (I 17 Heart Failure (HF)	Diagnosis and Treatment)		
User rating: OOOOO Your	rating:		
Versions	Published	Size	Format
Executive summary	2007 02 16	353 kB	Adobe PDF
Full text	2006 05 31	2 237 kB	Adobe PDF
Pocket guidelines	2006 06 04	435 kB	Word document
- Conter gendenniee			

Authors:

Ian Graham FESC, Chairperson, Dan Atar FESC, Knut Borch-Johnsen, Gudrun Boysen, Gunilla Burell, Renata Cifkova FESC, Jean Dallongeville, Guy De Backer FESC, Shah Ebrahim, Bjørn Gjelsvik, Christoph Herrmann-Lingen, Arno Hoes, Steve Humphries, Mike Knapton, Joep Perk FESC, Silvia G. Priori FESC, Kalevi Puorala FESC, Zelika Reiner FESC, Luis M Ruilona FESC, Susana Sans-Manandez, Wilma Scholte,

UEMS powered by Ortrac	Mathias Kremer Messages Log out
A European Interventional Radiology	Syllabus 🖞 Initial Programme for Clinical Radiology 🕀 Add activity 🔇 Search 🧿 Help
Knowledge	*Cardiac Radiology
Knowledge overview	Formative tests (?) Summative tests (?)
Topics	Currently there are no tests available Currently there are no tests available
*Breast radiology	Objectives and Educational Contant
*Cardiac Radiology	Objectives and Educational Content (7)
*Chest Radiology	Topic objectives
Gastrointestinal and Abdominal Radiology	O Cardiac radiology is an important and rapidly developing field in radiology. The use of cardiac imaging
Head and Neck Radiology	has progressed over the last decade to invol
*Interventional Radiology	The principle is to acquire:
Musculoskeletal Radiology	• The following manifestations of cardiovascular disease, including trauma, have to be covered during
Neuroradiology	the general radiological training. This should i
Paediatric Radiology	The following manifestations of cardiovascular disease, including trauma, have to be covered during the general radiological training. This should include formal teaching and exposure to clinical case material.
Urogenital Radiology	general radiological training. This should include formal teaching and exposure to clinical case material.
	Knowledge objectives
	Coronary artery disease including acute coronary syndromes - Myocardial ischaemia - Myocardial infarction - Post myocardial infarction syndrome
	Valve disease - Stenosis and incompetence of cardiac valves - Endocarditis - Sub and supra-valvar disease - Subvalvar apparatus disease
	Valve disease
	- Stenosis and incompetence of cardiac valves
	- Endocarditis
	- Sub and supra-valvar disease
	- Subvalvar apparatus disease
	The pericardium - Tamponade and restrictive disease - Acute pericarditis - Tuberculous disease - Malignant pericardial disease
	Cardiac tumours - Intracardiac tumours, i.e. myxomas, haemangiomas, and sarcomas - Secondary tumours - Tumours invading the heart
	Cardiomyopathy - Acute myocarditis - Dilated cardiomyopathy - Restrictive and obstructive cardiomyopathy - Cardiomyopathy related to systemic di

OF **BCS online accreditation May 2009** Logged in: su / Staff 1h 30m Pages: 1 2 3 4 5 6 --102 103 104 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 ----101 105 Instructions ➡■ Complete test Legend: Unanswered Answered ECurrent Nucertain Status: 5 of 120 questions answered. Question 115 / 120 A 64-year-old man was admitted with an 8 hour history of chest pain. ECG showed acute anterior ST elevation myocardial infarction. BP was 120/80 mmHG and he was cold and clammy. He underwent PCI to 0 Dopamine at a dose of >5 µg/kg/min the LAD with a good angiographic result. No other coronary stenoses were noted. He continued to complain of shortness of breath with a BP of 120/80 mmHg and a poor urine output. Epinephrine (adrenaline) 0 Following PCI, a chest X-ray showed pulmonary oedema, unresponsive to a furosemide bolus. An echocardiogram revealed a substantial anteroseptal wall motion abnormality with a hypokinetic posterolateral wall and a moderate jet of central mitral regurgitation. 0 Fluid challenge Right heart pressures (mmHg) 0 Intravenous glyceryl trinitrate right atrium 14 right ventricle 60/6 0 Norepinephrine (noradrenaline) pulmonary artery 60/24 pulmonary artery wedge mean 24 3,500 dynes.sec/cm5 🔫 Mark this answer as uncertain – go back and review it later. systemic vascular resistance 1.8 L/min/m2 cardiac index Which of the following is the most appropriate next step? Copyright © 2009 British Cardiovascular Society. All rights reserved OCHZONE British Cardiovascular Society U.E.M.S. Privacy | Disclaimer

Proposed Governance Structure



First pan-European pilot test of knowledge assessment

Intensive Care Medicine

4th February 2011

Ireland, Norway, Portugal & the UK



Next steps...

✓ January-June 2011: Pilot phase with next MCQ tests

- 13th May 2011: UEMS Board of Anaesthesiology
 - 150 trainees over 15 training centres in 10 countries
- 12th June 2011: UEMS Section of Cardiology
- ✓ 2012: Implementation of the process
- ✓ 2017: Full deployment of ECAMSQ[®] and first *"diplomas"* delivered

How to assess Medical Specialists qualifications?

- develop harmonised curricula in each specialty
- ensure that all member states adopt the curricula and translate them into their national system
- ensure that all Medical Specialists have the same main core competencies in their specialty across Europe



HOW is the (Postgraduate) Specialist Training assessed in the different EU Member States

Final Examination

Certification

License to Practice

License to be reimbursed

Diploma of the University

ECAMSQ[®] aims

- to address the issue of medical specialist qualifications across Europe and ensure that medical specialists meet the highest standards of qualification (to assure best quality and safety of care for patients)
- to assess and certify medical specialists' competence on the basis of harmonised European standards developed by the UEMS

ECAMSQ[®] objectives

- individual certification of medical specialists' competences
- harmonisation of Medical Specialists Qualifications across Europe
- harmonisation of existing European assessment of Medical Specialists Qualifications

Challenge of the ECAMSQ (1)



Challenge of the ECAMSQ (1)



National and European recognition as medical specialist



EUROPEAN CERTIFICATION What Should be Certified in the Future?

- European Educational/Training Programmes of (sub)Specialists in training (ends with a Certification)
- Certification of pre-existing specialists/subspecialists
 (European exam? Grandparent rule?)
- Certification of training centers/trainers (visitations?)

Re-certification of individual specialists/subspecialist with UEMS-EACCME credits (every 5 years?)

Quality assurance underway...



European Accreditation: We need to work together !

