



# Tuning (Medicine) 2007

## **MEDINE Thematic Network**







# The Tuning Project (Medicine) - process and methods

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# **Generic Tuning Competences (1)**

<b>ability to recognise limits and ask for help</b>	<b>3.63</b>
<b>capacity for applying knowledge in practice</b>	<b>3.61</b>
<b>capacity to learn (including lifelong self-directed learning)</b>	<b>3.58</b>
<b>probity (honesty, maintaining good practice)</b>	<b>3.58</b>
<b>ability to make decisions</b>	<b>3.57</b>
<b>critical and self-critical abilities</b>	<b>3.41</b>
<b>interpersonal skills</b>	<b>3.37</b>
<b>concern for quality</b>	<b>3.35</b>
<b>ability to work in a multidisciplinary team</b>	<b>3.27</b>
<b>empathy</b>	<b>3.23</b>



## **Generic Tuning Competences (2)**

<b>ability to solve problems</b>	3.51
<b>capacity to adapt to new situations</b>	3.22
<b>ethical commitment</b>	3.21
<b>capacity for analysis and synthesis</b>	3.14
<b>ability to work autonomously</b>	3.10
<b>ability to communicate with experts in other fields</b>	3.09
<b>capacity for organisation and planning (including time management)</b>	2.87
<b>appreciation of diversity and multiculturalism</b>	2.70
<b>will to succeed</b>	2.58
<b>ability to teach others</b>	2.54
<b>knowledge of a second language</b>	2.51



## **Generic Tuning Competences (3)**

<b>understanding of cultures and customs of other countries</b>	2.49
<b>ability to lead others</b>	2.45
<b>basic general knowledge outside med</b>	2.45
<b>initiative and entrepreneurial spirit</b>	2.44
<b>research skills</b>	2.33
<b>creativity</b>	2.29
<b>ability to work in an international context</b>	2.24
<b>ability to design and manage projects</b>	2.22



## Level 1 Competences/Learning Outcomes for medical graduates and practice of medicine in Europe

carry out a consultation with a patient (history, examination ...)	3.77
provide immediate care of medical emergencies, including First Aid and resuscitation	3.66
assess clinical presentations, order investigations, make differential diagnoses, and negotiate a management plan	3.50
carry out practical procedures (e.g. venepuncture)	3.36
communicate effectively in a medical context	3.31
apply ethical and legal principles in medical practice	3.26
prescribe drugs	3.26
assess psychological and social aspects of a patient's illness	3.17
apply the principles, skills and knowledge of evidence-based medicine	3.02
use information and information technology effectively in a medical context	2.93
apply scientific principles, method and knowledge to medical practice and research	2.89
work effectively in a health care system and engage with population health issues	2.83



## LEVEL 2 - LOW RATED OUTCOMES

Ability to analyse and disseminate experimental results	2.17
Ability to apply statistical analysis to data	2.15
Ability to design research experiments	1.81
Ability to carry out practical laboratory research procedures	1.71
Ability to provide evidence to a court of law	2.48
Ability to perform respiratory function tests	2.53
[ <i>Knowledge</i> - The different types of complementary and alternative medicine and their use in patient care	2.26]





## LEVEL 2 COMPETENCES/OUTCOMES

### 'Ability to carry out a consultation with a patient'

Ability to take a history	3.80
Ability to carry out physical examination	3.78
Ability to make clinical judgements and decisions	3.51
Ability to provide explanation and advice	3.37
Ability to provide reassurance and support	3.30
Ability to assess the patient's mental state	3.22



## LEVEL 2 COMPETENCES/OUTCOMES

**'Ability to assess clinical presentations, order investigations, make differential diagnoses, and negotiate a management plan'**

Ability to recognise and assess the severity of clinical presentations	3.56
Ability to order appropriate investigations and interpret the results	3.39
Ability to make differential diagnoses	3.46
Ability to negotiate an appropriate management plan with patients and carers	3.22
Ability of provide care for patients with chronic illness	
Ability to provide care for patients who are dying	



## LEVEL 2 COMPETENCES/OUTCOMES

### 'Ability to provide immediate care of medical emergencies, including First Aid and resuscitation'

Ability to recognise and assess acute medical emergencies 3.77

Ability to provide basic First Aid 3.76

Ability to provide Basic Life Support and Cardio-Pulmonary Resuscitation according to European guidelines 3.76

Ability to treat acute medical emergencies 3.44

Ability to provide Advanced Life Support according to European guidelines 3.15

Ability to provide trauma care according to European guidelines 2.91



## LEVEL 2 COMPETENCES/OUTCOMES

### 'Ability to prescribe drugs'

Ability to prescribe clearly and accurately	3.39
Ability to match appropriate drugs to the clinical context	3.36
Ability to review the appropriateness of medication and evaluate the potential benefits and risks	3.30
Ability to prescribe drugs to treat pain and distress	3.21





## LEVEL 2 COMPETENCES/OUTCOMES

### **'Ability to communicate effectively in a medical context'**

Ability to communicate with patients	3.75
Ability to communicate with colleagues	3.53
Ability to communicate orally	3.49
Ability to communicate in breaking bad news	3.39
Ability to communicate with relatives	3.33
Ability to communicate with disabled people	3.31
Ability to communicate in seeking informed consent	3.29
Ability to communicate in writing (including medical records)	3.24
Ability to communicate in dealing with aggression	3.17
Ability to communicate by telephone	3.08
Ability to communicate with those who require an interpreter	2.96



## LEVEL 2 COMPETENCES/OUTCOMES

### 'Ability to carry out practical procedures (e.g. venepuncture)'

Ability to measure blood pressure	3.62
Ability to carry out venepuncture	3.52
Ability to administer oxygen	3.40
Ability to carry out cannulation of veins	3.37
Ability to carry out subcutaneous and intramuscular injection	3.34
Ability to administer IV therapy and use infusion devices	3.31
Ability to carry out electrocardiography	3.09
Ability to carry out suturing	3.03
Ability to carry out blood transfusion	3.00
Ability to carry out bladder catheterisation	2.91
Ability to carry out urinalysis	2.78
Ability to move and handle patients	2.73
Ability to carry out <b>basic</b> respiratory function tests	2.53



## LEVEL 2 COMPETENCES/OUTCOMES

### 'Ability to work effectively in a health care system and engage with population health issues'

Ability to provide patient care which minimises the risk of harm to patients	3.55
Ability to apply measures to prevent the spread of infection	3.54
Ability to recognise own health needs and ensure own health does not interfere with professional responsibilities	3.29
Ability to conform with professional regulation and certification to practise	3.22
Ability to receive and provide professional appraisal	3.11
Ability to make informed career choices	2.86



## LEVEL 2 COMPETENCES/OUTCOMES

### 'Ability to apply ethical and legal principles in medical practice'

Ability to maintain confidentiality	3.74
Ability to apply ethical principles and analysis to clinical care	3.49
Ability to obtain and record informed consent	3.31
Ability to certify death	3.29
Ability to apply national and European law to clinical care	3.04
Ability to request autopsy	2.88
Removed - Ability to provide evidence to a court of law	2.48





## LEVEL 2 COMPETENCES/OUTCOMES

### **'Ability to use information and information technology effectively in a medical context'.**

Ability to keep accurate and complete clinical records	3.51
Ability to use computers	3.49
Ability to access information sources	3.44
Ability to store and retrieve information	3.26



## LEVEL 2 COMPETENCES/OUTCOMES

### 'Ability to apply the principles, skills and knowledge of evidence-based medicine'.

Ability to apply evidence to practice	3.01
Ability to critical appraise published medical literature	3.00
Ability to define and carry out an appropriate literature search	2.95
Removed	
Ability to generate evidence through clinical audit	2.47
Ability to apply statistical analysis to data	2.15



## **LEVEL 2 COMPETENCES/OUTCOMES**

**'Ability to apply scientific principles, method and knowledge to medical practice and research'**

All level 2 removed



## LEVEL 2 COMPETENCES/OUTCOMES

### **'Ability to assess psychological and social aspects of a patient's illness'.**

Ability to assess psychological factors in presentations and impact of illness	3.12
Ability to detect alcohol and substance abuse, dependency	3.11
Ability to detect stress in relation to illness	3.03
Ability to assess social factors in presentations and impact of illness	3.01





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**THANK YOU**







# TUNING TASK FORCE, MEDINE 2

Aims of the Tuning (Medicine) Task Force will be:

- To build on the work of the current network, MEDINE.
- To consider how the “Dublin Descriptors” and the Bologna 3 cycle model can be integrated with the new Tuning (Medicine) competency framework. To investigate how competences for 1st and 3rd cycles might relate to those for primary medical qualifications.
- To apply new systems for mapping other competency frameworks to Tuning.
- To develop new systems for categorising competences and defining level statements.
- To promote use of Tuning (medicine) tools within and outside Europe, linking with the Tuning Project and Tuning Latina America.
- To relate the Tuning competences to curriculum design, including a model core undergraduate medical curriculum which will allow students to achieve the Tuning competences at the point of graduation.
- To generate guidance on best practice in assessing the Tuning (medicine) competences.