

# Multiprofessional Education in the Health Sector

Olli Vainio, MD, PhD  
Univ. Oulu, Finland

HRK Conference  
Bonn, October 14th-15th 2005

## Tomorrow's doctor's capabilities

- Firm basis on knowledge, skills and competencies
- Ability for lifelong learning
- Communication skills
- Working in multiprofessional teams

## Tomorrow's doctor's training

With a Multi- and/or Interprofessional  
Concept ?

### Training of Health Sector Personnel with a Multi- and Interprofessional Concept

- Multiprofessional:  
Education of different health care professions  
within a single institution
- Interprofessional:  
Joint learning of students studying different  
programmes

## Training of Health Sector Personnel with a Multi- and Interprofessional Concept

Why ?

Changes in culture, health care, education  
systems, society..

## Training of Health Sector Personnel with a Multi- and Interprofessional Concept

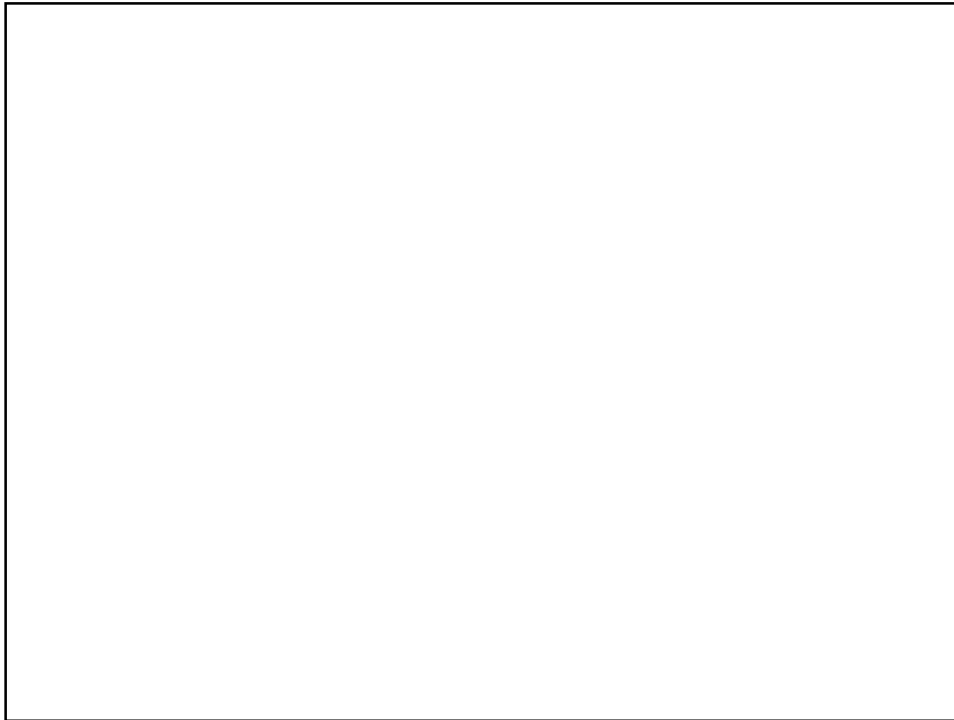
- Trends:
  - from Disease- to Health-orientation
  - Socio-demographic changes: aging population
  - Subject and technology diversification
  - Multiprofessional working teams
  - ICT development
  - Multicultural societies

## Training of Health Sector Personnel

What are the Pros and Cons of Multi-  
and/or Interprofessional Education ?

***"To marry an applied scientist  
with a medical humanist"***

*BMJ 7366, 9/02*



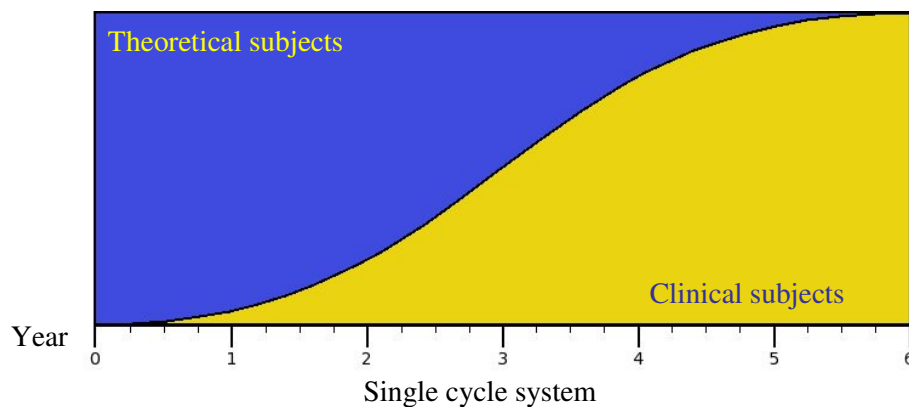
## Multiprofessional Study programmes at Medical Faculty of Oulu University, Finland

- Classical Study Programmes:
  - Medicine: 360 CP, single cycle
  - Dentistry: 300 CP, single cycle
    - together about 1000 undergraduates
- Faculties and Ministry of Education have agreed on:
  - freedom to choose between 1- or 2-cycle system in medicine, dentistry and veterinary medicine
  - agreement between the faculties to continue with a single cycle system until 2009 and then based on own and European experience each faculty has the autonomy to make a new decision

## Multiprofessional Study programmes at Medical Faculty of Oulu University, Finland

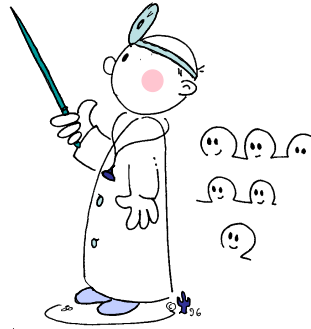
- Health Science-Related Study Programmes:
  - Nursing Science: B.Sc. 180 CP; M.Sc. 120 CP
    - Background: vocational training
  - Health Administration: B.Sc. ; M.Sc.
  - Medical Technology: B.Sc. ; M.Sc.
  - Clinical Laboratory Science: B.Sc. ; M.Sc.
  - Radiography: B.Sc. ; M.Sc.
  - Health Science Teacher: B.Sc. ; M.Sc.

Curriculum in the five medical schools in Finland



## Intake to the Medical Schools in Finland

<u>Year</u>	<u>Intake</u>
1992	505
1993	387
1994	357
1995	362
1996	362
1997	367
1998	427
1999	485
2000	494
2001	558
2002	602
2003	631
2004	619
2005	630



## Physicians in Finland

<b>Year</b>	<b>Physicians</b>	<b>Women %</b>	<b>Year</b>	<b>Physicians</b>	<b>Women %</b>
1900	373	1	1980	9 517	33
1910	523	3	1990	14 325	42
1920	657	6	1995	16 684	46
1930	1 000	9	2000	18 925	48
1940	1 394	13	2001	19 336	49
1950	2 034	21	2002	19 764	49
1960	2 915	22	2003	20 119	49
1970	4 965	27	2004	20 717	50



# What is Tuning?

## TUNING MOTTO

Tuning of educational structures and programmes on the basis of diversity and autonomy

### ***A methodology for designing, planning and implementing curricula***

#### **Tuning approach:**

- student centred
- definition of academic and professional profiles
- definition of learning outcomes
- identifying generic and subject specific competences
- output-oriented curricula

## Tuning methodology

Based on learning outcomes (developed by the programme) and competences (developed by the student)

- generic and specific competences
- competences agreed
- competences used as reference points
- competences emerging from consultation with academic, professional and social actors

Student-centered, expressed in ECTS credits and workload

With new approaches on learning and teaching

With a perspective on quality enhancement

## Tuning III

Dissemination

Disciplines:

Tuning II +

**THEMATIC NETWORKS**

# Thematic Networks

USAE – Agricultural engineering  
INTER-ARTE – Higher Arts  
[ERIC – European Resources for Intercultural Communication: Subnet Medicine and Health](#)  
EUCEET II – Civil Engineering  
ECTN3 – Chemistry  
[EUROPET – European Pediatrics](#)  
HERODOT – Geography  
[HENRE – Radiography](#)  
[Nursing](#)  
[DentED III – Dentistry](#)  
EEGECS – Geodetic Engineering  
TREE – Engineering  
[MEDINE – Medical Education](#)  
[ENOTHE – Occupational Therapy](#)  
CLIOHNET – History  
[BIOTECHUNTE – Biotechnology](#)  
POLIS – Political Science  
Architecture  
ISEKI – Food – Food Studies  
PHOENIX TN – Health and Social Welfare Policy  
ETN DEC – Doctoral Education in Computing