Postgraduate education in clinical pharmacy –

from specialisation led by professional organisations to an academic degree within the Bologna framework

> Professor Espen Molden School of Pharmacy, University of Oslo

Moving from professional specialisation to an academic degree

- Historical background
- Discussions with the employers
- Definition of specifications
- Legal framework
- Collaboration with employers and practitioners in preparation of curriculum
- Framework for the new master degree
- Financing
- Experiences so far

Historical background

- 1990: a formal specialist education for hospital pharmacy established
 - Administered by Norwegian Pharmaceutical Association
 - Elective theoretical courses, supervised practice
- 1997: Administrative responsibility transferred to Department of Postgraduate and Continuing Education, School of Pharmacy, University of Oslo (UiO)
- 2002: A new framework for specialist education finalized
- 2003: The full formal responsibility for the specialist education is transferred to The School of Pharmacy, UiO
- 2004: The Norwegian hospital pharmacies signals that the new specialist education does not fulfil their needs
- 2006: Hospital Specialist Education is formally closed

Hospital Specialist Education



Discussions with the employers

- Discussions initiated with Hospital Pharmacy Enterprises
- Investigated future market for specialisation
 - 88 hospital pharmacy specialists educated in the period 1990-2006
 - Estimated future need within the hospital pharmacies: 4 candidates per year
- Hospital pharmacies wanted a more structured approach
- Focus needed,- not just another generalist education
- Discussion with three main community pharmacy chains
 - Need to enhance competencies in clinical pharmacy
 - Want to establish role models for the *new patient oriented pharmacist*
- Carrier opportunities for candidates must be defined

Specifications for a new specialist education

- Clinical pharmacy the preferred focus
- Relevant for candidates from hospital and primary pharmacies
- Structured and compact curriculum
- Internationally recognised degree
 - Accredited educational institution
 - Mobility/international collaboration
 - Formally recognised within the Bologna system

Legal framework

Bologna framework:

- First cycle: 3 year bachelor
- Second cycle: 2 year master
- Third cycle, research training: 3 years Ph.D
- Third cycle, advanced practitioner training: missing
- Regulation regarding requirements for Master degrees:
 - Master degree, 120 ECTS (2 years)
 - Master degree, 300 ECTS (5 years integrated bachelor and master)
 - Experience based master, 90 or 120 ECTS (1,5 -2 years)



Concept of experience-based master degree

 Defined as a continous education/specialist degree in a public regulation for master degrees (2005)

Courses: 60 study points (1 y full-time)

Master project: 30 study points

Requirements

- Minimum 2-y relevant working experience (defined by educational site)
 - drug information to health care professionals and/or patients*
- Minimum bachelor degree as basic education with marks C or better

*experience must include services beyond regular pharmacy practice

Development of curriculum: collaboration with employers and practitioners

- Study plan development committee:
 - 4 from faculty, School of Pharmacy, 4 practitioners
- Study plan hearing:
 - Employers' organisations, Employees' organizations, Government, Pharmacy chains etc.....
- Formal hearing committee:
 - 2 from School of Pharmacy, 2 representatives from hospital pharmacy owners, 2 representatives from hospitals
- Course development committee:
 - Faculty members and practitioners
- Uptake committee:
 - Faculty and administrative staff from School of Pharmacy
 - 1 representative from the pharmacy owners association

Experience-based master in clinical pharmacy

Courses (part time over 2 y, 50% progression)

 The pharmacist in the health care system [NEW] (main focus: communication and practice at a clinical unit]

Clinical chemistry [EXCISTING]

 Advanced pharmacotherapy I [NEW] (main focus: individual variability)

Advanced pharmacotherapy II [NEW]
(main focus: problem issues in different therapeutic areas)

 Master project (full time over ½ y) (integrated as a part of regular practice)

Annual intake of students (15 places)

Financing

Basic financing over state budget Annually 1 mill NOK (~125 000 Euro) per 15 students

Student fee Annually 50 000 NOK (~6 000 Euro) per student*

*A minimum of 10 qualified candidates required

Experiences so far; Admission 2009

- 34 applications
 - •7 not qualified
- 15 offers
 - 13 from hospital pharmacies
 - 10 with master degrees
 - 3 with bachelor degrees
 - 2 from community pharmacies
 - 1 master
 - 1 bachelor