

Unofficial translation of the Danish

## Executive Order on the Education of Pharmacoconomists

Pursuant to § 34, subsections 2 and 4, of the Act on pharmacy practice, cf. Executive Order no. 657 of 28 July 1995, the following is laid down:

### Chapter 1

#### *Aim and Duration of the Education*

**§ 1.** The aim of the education of pharmacoconomists is to qualify the students so that, upon completion of the education and in respect to the role and responsibilities of the pharmacy according to applicable regulations and standards, they act in a systemic, problem-solving, situation-specific and development-oriented way by

- 1) assessing and providing professional information
- 2) striving to improve pharmacy users' safety and quality of life
- 3) working in a systematic, methodical and quality-conscious way
- 4) working independently, flexibly, responsibly and ethically acceptably, and
- 5) working consciously of own professional qualifications and personal abilities.

*Subsection 2.* The students must qualify to

- 1) practise clinical pharmacy, including managing the distribution of drugs and providing professional counselling on drugs, taking due account of drug formulations, and advise on allied products and self-care;
- 2) carry out relevant health-promoting and prophylactic services;
- 3) be part of the quality control of the work in the pharmacy and be conscious of the significance of quality improvement;
- 4) be aware of the significance of values and standards for the role and responsibilities of the pharmacoconomist;
- 5) have focus on the role of the pharmacy in society, both as part of the health sector and as a business, eg qualify to contribute to the pharmacy's assignments related to its finances, management, marketing, working environment and collaboration
- 6) be conscious of the significance of quality assurance of drugs.

*Subsection 3.* 'Pharmacy' is taken to mean 'community pharmacy' as well as 'hospital pharmacy'.

**§2.** The education of pharmacoconomists takes place at the Danish College of Pharmacy Practice as well as in a tutoring pharmacy.

*Subsection 2.* The Danish College of Pharmacy Practice designs the education in terms of subjects, structure, teaching methods, co-ordination and quality assurance of the academic and practical elements of the education.

*Subsection 3.* The tutoring pharmacy selects and employs the students. The tutoring pharmacy ensures that the students' prerequisites meet the requirements of the admission notice. The education starts on 1 September.

*Subsection 4.* The education is rated to three full-year equivalents, or 180 ECTS points (European Credit Transfer System points). One full-year equivalent corresponds to full-time work for one student for one year. One full-year equivalent is accredited 60 ECTS points.

*Subsection 5.* The education must be completed no later than six years after start. The Danish College of Pharmacy Practice may, in exceptional circumstances, grant an exemption from this.

**§3.** The education qualifies to the designation 'Farmakonom' which translates into 'Pharmacoconomist' in English.

## **Chapter 2**

### *Organisation and Contents of the Education*

**§ 4.** The education is organised with reference to the area of business of the pharmacy so as to establish an interaction alternating and combining academic and practical training.

**§ 5.** The level of complexity will continuously increase throughout the education. The timing, scope and contents of the subjects will be prioritised in relation to issues relevant to the profession.

**§ 6.** National and international research findings within the field of pharmacy as well as other fields of relevance to the profession will, as far as possible, be incorporated into the education.

**§ 7.** The academic and practical parts of the education will incorporate learning methods and environments contributing to developing the students' personal, social and professional skills, cf. § 1.

**§ 8.** To the extent appropriate to the field in question, the education will incorporate instruction in environmental issues and in the interaction between different cultures.

**§ 9.** The academic part of the education corresponds to 85 ECTS points, while the practical part of the education corresponds to 95 ECTS points.

*Subsection 2.* The education comprises an optional subject corresponding to 8 ECTS points, cf. § 10. The options will be set by the Danish College of Pharmacy Practice and appear from the curriculum. The subjects will be implemented according to demand.

*Subsection 3.* An option will consist of three parts: academic training at the Danish College of Pharmacy Practice equalling 1.5 ECTS points, stationing equalling 3 ECTS points, and a project equalling 3.5 ECTS points.

*Subsection 4.* The statement of the project will be selected by the student and validated by the Danish College of Pharmacy Practice.

**§ 10.** The education will comprise academic and practical training within the following fields:

- 1) Medico-pharmaceutical sciences, including anatomy and physiology; pathology; general and special pharmacology, and; pharmaceutics (totalling 78 ECTS points).
- 2) Socio-pharmaceutical subjects, including social pharmacy; legal comprehension; health economics; clinical pharmacy, and; health promotion and disease prevention (totalling 48 ECTS points).
- 3) Humanistic subjects, including psychology; ethics; communication; pedagogy, and; presentation (totalling 25 ECTS points).
- 4) Organisation and management, including organisation, management and collaboration; sales and marketing; logistics; work environment, and; quality management (totalling 16 ECTS points).
- 5) Methodology (totalling 5 ECTS points).
- 6) Optional subject, cf. § 9, subsection 2 (totalling 8 ECTS points).

**§ 11.** The aim of the academic and practical training is to secure coherence between theory and practice, thereby laying a basis for qualified execution of pharmacy practice.

*Subsection 2.* The academic training involves a combination of teacher-managed and student-guided elements.

*Subsection 3.* The practical training involves a combination of practical education and training within pharmacy practice, weekly study days scheduled by the Danish College of Pharmacy Practice, decentralised education days organised by the Danish College of

Pharmacy Practice, and four weeks of stationing, two weeks of which are part of the optional subject.

### **Chapter 3**

#### *Examinations, Tests and other Assessment*

**§ 12.** The education comprises one test with an internal examiner following the first year of education; one test with an internal examiner following the second year of education; one test with an external examiner during the third year of education, and three tests with an external examiner following the third year of education. One test during the third year consists of a project related to the option.

*Subsection 2.* The curriculum stipulates the degree to which the tests of the education must be passed to allow a student to pursue the education.

*Subsection 3.* In addition, the regulations laid down in the order on tests and examinations in the Danish vocational education and training system (the Examination Order) and the Ministerial Order on the Grading Scale and other Forms of Assessment (Order on Grading Scales) apply to tests and examinations in the education.

### **Chapter 4**

#### *Curriculum*

**§ 13.** Within the framework of this Order, the Danish College of Pharmacy Practice will establish the precise regulations for the education in a Curriculum. This Curriculum will be approved by the Danish Ministry of Education following a statement from the Ministry of Interior and Health.

*Subsection 2.* The Curriculum should outline:

- 1) The aim, contents, ECTS point requirements, timing and planning of the academic training at the Danish College of Pharmacy Practice and the practical training at the pharmacy, cf. §§ 10 and 11.
- 2) The optional subject, cf. § 9, subsections 2 and 3, including the project work, cf. § 9, subsection 4.
- 3) Learning methods and environments of the education, cf. § 7.
- 4) Guidelines for the practical training, cf. § 11.
- 5) Guidelines for the collaboration between the pharmacy and the Danish College of Pharmacy Practice, including requirements of and expectation to the parties involved.
- 6) Requirements to the training and examination, including special preconditions in the education.

*Subsection 3.* Besides the regulations laid down in this Order, the Curriculum encompasses regulations laid down in the Examination Act.

**§ 14.** It should be evident from the Curriculum that the Danish College of Pharmacy Practice may, if substantiated by exceptional circumstances, make an exemption from regulations in the Curriculum that have been established solely by the Danish College of Pharmacy Practice.

*Subsection 2.* A representative of the students and a representative of the tutoring pharmacies will take an active share in the drawing up of the Curriculum. In the event of significant changes in the Curriculum, the Danish College of Pharmacy Practice will contact representatives of the aforementioned parties and will obtain a statement from the Chairmanship of External Examiners, cf. the Examinations Act. The Curriculum, including any significant changes hereto, shall come into force at the start of the educational year and shall contain regulations for the transitional stage. The Curriculum and changes hereto shall require approval by the Ministry of Education following a statement from the Ministry of Interior and Health.

*Subsection 3.* The existing Curriculum shall be available on the website of the Danish College of Pharmacy Practice.

## **Chapter 5** *Other Regulations*

**§ 15.** In individual cases or according to regulations determined by the Danish College of Pharmacy Practice, the College may validate that elements from another education passed according to its given regulations, replace educational elements of the present Curriculum. The decision should be made based on a professional assessment of the equivalence between the educational elements concerned.

**§ 16.** The Ministry of Education may approve of deviations from the present Order as part of experimental curricula. The duration and means of reporting will be determined at the same time.

**§ 17.** Legal complaints about the decisions of the Danish College of Pharmacy Practice with reference to the present Order may be brought before the Ministry of Education. Complaints will be filed with the Danish College of Pharmacy Practice. If the decision is maintained, the Danish College of Pharmacy Practice will forward the complaint to the Ministry accompanied by a statement. The complainant will be given at least a week by the Danish College of Pharmacy Practice to comment on the statement. These comments will be sent to the Ministry.

*Subsection 2.* The deadline for filing a complaint according to subsection 1 will be two weeks from the day on which the complainant has been notified of the decision.

## **Chapter 6** *Regulations for Coming into Force and Transition*

**§ 18.** This Order shall come into force on 1 September 2007 and shall be applicable towards students enrolling on 1 September 2007 and later.

*Subsection 2.* Concurrently, this revokes Order no. 486 of 9 June 1997 on the Education of Danish Pharmaconomists, with the exception of subsection 3.

*Subsection 3.* The aforementioned Order no. 486 of 9 June 1997 will still apply for students having commenced the education prior to 1 September 2007.

*Subsection 4.* For students that have started the education based on the former regulations, cf. subsection 2, but have not graduated before 2010, the Danish College of Pharmacy Practice may organise transitional curricula, whereby these students will complete the education in accordance with the present Order.

Ministry of Education, 27 June 2007

on behalf of the Ministry

Steffen Jensen  
Appointed Director of Educations ad interim