

## **Czech Republic**

### **Country Report**



**2012**

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# 1. Czech Pharmaceutical Society (CPS)

The Czech Pharmaceutical Society is a professional and scientific association with its seat in Hradec Králové and active on the territory of the Czech Republic. The Society is an independent, voluntary, non-governmental organization open to pharmacists and other specialists in health care and all related fields of activity. In international cooperation and contacts, it acts as an independent society. Within the country, it is a member of the Czech Medical Association J. E. Purkyně and abides to its organisational structure and statutes.

## 1.1. Scheme of CPS

Presidium made up of representatives of the Society elected for a 4-year period:

- President
- Vice Presidents
- Secretary General
- Seven other members

The main objective of the Czech Pharmaceutical Society is to collect, develop, and promote new concepts in pharmaceutical science and to apply them to health care. To achieve its basic objectives, activities directed at the dissemination of information of the latest results of pharmaceutical research and all other related sciences are pursued. The Society participates in educational activities in close co-operation with research and educational institutions in the field of pharmaceutical sciences.

## 1.2. Organizations of CPS

Society is currently divided into 11 professional sections:

- Community Pharmacists
- Clinical Pharmacy
- Hospital Pharmacists
- Pharmaceutical Technology
- Pharmaceutical Analysis
- Synthetic Drugs
- Natural Drugs
- Biological Drugs
- History of Pharmacy
- Social Pharmacy
- Section of Pharmaceutical Assistants.

The Society's professional sections hold their nationwide annual meetings and international congresses as well. The Society has its own journal "*Czech and Slovak Pharmacy*" in which its members have an opportunity to publish scientific papers. This journal presents information about national and international pharmaceutical meetings, their programs and activities.

## 1.3. Pharmaceutical Technology Section of CPS

Section consists of professionals and interested people in the fields of proposal, research, development, production, and evaluation of pharmaceutical formulations and drugs. Nowadays *180 persons* from research, development, control, and distribution of drugs as well as related specialized employees in health care facilities including academic and educational institutions are members of the Section. There is a small *group of Industrial Pharmacists in Czech Republic*, which is the part of the *Section of Pharmaceutical Technology*. The aim of this section's activity is to enlarge and apply new experience in pharmaceutical technology and related fields. In the scope of the Czech Pharmaceutical Society the section organizes professional meetings and takes part in lifelong learning in the field of its activity.

## 1.4. Section of Pharmaceutical Technology

Seminars on Pharmaceutical Technology held every year.

The program of the seminar in 2012 included following topics:

- Modern radiopharmaceutics and European legislation
- Formation of tablets and theory of compression (equations of compression)
- Blending and homogeneity in direct compression process
- Lipid systems for oral administration
- Mucoadhesive films
- Mechanisms of pulsatile release of oral dosage forms
- Dermal semisolid drugs and evaluation of their rheological parameters
- Microparticles prepared by solvent evaporation
- Oligoesters as adhesive drug carriers
- The use of multivariate statistical methods in research and development
- Factors affecting the stability of parenteral mixtures

## **2. Most important Associations in Pharmaceutical Industry**

- Association of Pharmaceutical Medicine (AFM)
- Association of Drug Distributors Center for Pharmacology and Analysis (CEPHA)
- Czech Association of Pharmaceutical Producers (ČAFF)
- Association of Innovative Pharmaceutical Industries (AIFP)
- Association of OTC producers (SVOPL)

## 3. Pharmaceutical Education

### 3.1. Pharmaceutical Faculties

#### 3.1.1 Undergraduate Education in Pharmaceutical Technology

##### **Faculty of Pharmacy**

**Charles University in Prague, Hradec Králové**

##### **Obligatory subjects:**

- Pharmaceutical Technology,
- Medical Devices.

##### **Elective subjects:**

- Cosmetology for Pharmacists,
- Industrial Pharmacy,
- Industrial Technology of Pharmaceutical Preparations.

##### **Faculty of Pharmacy**

**University of Veterinary and Pharmaceutical Sciences, Brno**

##### **Obligatory subjects:**

- Dosage Forms and Biopharmacy,
- Theory of Dosage Forms.

##### **Elective subjects:**

- Advanced Drug Delivery,
- Industrial Pharmacy,
- Instrumental Analytical Methods in the Pharmaceutical Technology,
- Methods of Evaluation and Creating of Formulation Files of Pharmaceutics,
- Cosmetic Products,
- Hospital Pharmaceutics and their Technology.

#### 3.1.2 Postgraduate Education in Pharmaceutical Technology

Both Faculties of Pharmacy offer Ph. D. in Pharmaceutical Technology.

### **3.2. Institute of Postgraduate Education in Healthcare (IPVZ)**

IPVZ offer for pharmacists the postgraduate specialization:

- Pharmaceutical Technology
- Laboratory Methods in Healthcare
- Radiopharmaceuticals
- Clinical Pharmacy
- Pharmaceutical Analysis
- Hospital Pharmacy

Section of Pharmaceutical Technology performs courses and internships held every year. The program of the 2012 included following topics:

- Course in Radiopharmaceuticals
- Internship in Radiopharmaceuticals
- Internship in Pharmaceutical Technology
- Internship in Microbiological Monitoring
- Course in Pharmaceutical Legislative
- Course in Pharmaceutical Analysis in R/D and Pharmaceutical Production
- Course in Good Laboratory Praxis
- Course in Analytical Biochemistry
- Course for Qualified persons in Pharmaceutical Industry
- Course for Quality assurance in Pharmaceutical Production