

The Internship II – 24 Weeks
of the students of the Master Degree of Pharmacy of the Faculty of
Pharmacy at the University of Veterinary and Pharmaceutical Sciences
Brno

SCOPE OF PRACTICE

Good pharmacy practice.

Laws governing the practice of pharmacy.

Pharmacopoeias and formularies, pharmacy information sources – European Pharmacopoeia, Czech Pharmacopoeia.

Controlled substance and drugs – schedules, keeping locations, order forms, dispensing restrictions, inventory requirements, records.

Prescription, pharmaceutical dispensing and compounding calculations.

Pharmacy working environment. Pharmacy equipments. Dispensing of medicines.

Administration of pharmaceutical dosage forms.

Principles of responsible self-medication, health promotion.

Formulation of dosage forms.

Pharmacy administration. Medicine supply system. Medicine storage. Medical device specific storage conditions. Assortment of other specialized pharmacy products. Assortment of non-pharmacy products.

Providing pharmacy counselling, consultation, or drug information. Patient-oriented counselling in pharmacies, physician-oriented drug information and consumer-oriented counselling. Pharmacy information sources.

Administrative practice – accounting and documentation of particular activities in pharmacy.

Economics of the pharmacy. Establishing drug price in pharmacy. Drug reimbursement. Veterinary medicines and veterinary pharmacy. Medical devices. Specificity in hospital pharmacy practice.

Pharmacy staff – specialists, other workers. Safety at work and work hygiene in pharmacy.

Duration of internship: at least six months of in-service training in a pharmacy open to the public or in a hospital.

Internship completion: credit.

Students get acquainted with:

- pharmacy and pharmacy personnel
- division of labour in pharmacy
- work safety regulations
- pharmacy operating rules
- pharmacy sanitary regimen
- concerning legal regulations

Adequate knowledge of legal and other requirements associated with the pharmaceutical practice (the preparation and dispensing medicinal products).

MORE DETAILED SCOPE OF PRACTICE:

1. Drug dispensing

fixtures and equipment

receiving, reading and checking the prescription

handling the prescription and examination a prescription order (interactions, the control of exceeding quantities/strength of the ingredients, that is prescription of unusual doses)

minimum information giving within dispensing a prescription (in mass-produced pharmaceutical preparations the active substance, indication group, size of package, strength, dosage form, adverse drug reactions and contraindications, especially)

patient communication (psychological aspects)

pricing the prescription, percentage mark-up on the cost of the ingredients, health insurance company

forms of the prescription order

2. Drug preparation

expiry date of compounding preparations

principles of medication compounding, preparation of single dosage forms

principles of preparation of sterile pharmaceutical forms and medicinal products

principles of labelling

pricing of compounding medicine based on fees dependent on the type of dosage form and number of doses supplied, and time required for compounding, fee for labour (“professional fee”)

3. Supply of medicinal products

range of medicinal products in pharmacy

orders process of range of medicinal products

pharmacy deliverers and their range of goods

supplying of sanitary devices, ordering through producers

acceptance of goods from pharmacy deliverers, lot number control, expiration date control,

correct quantity control, price formulation

record of delivery, stock management

reclamation of goods, ways of reclamation solutions

storage requirements on drugs and other goods

refilling and overfilling of drugs

waste disposal of unusable drugs

4. Control of drugs

legal aspects of drug control

organization and equipment of the drug control workplace

analytical device, the preparation of the control chemicals and volumetric solutions

instrumental device for drug control, evaluation of the drug quality

drug control, Pharmacopoeia, pharmaceutical control charts, methods of documentation of the control activities

control of prepared drugs in pharmacy, individual and mass product formulation

drug control during storage in the pharmacy – lot number, expiry date, certificate

defect in drug quality – drug detention and drug withdrawal

drug control during storage in the pharmacy – storage temperature, storage humidity, weights

control, control of other pharmaceutical devices

pharmacy sanitary regimen, pharmacy operation regimen

control subjects

5. Information, consultation and health-educatory activity

information sources (professional literature, legal rules, medical press) and work with it

computer techniques with purpose in information seeking (medical databases, Internet)

cooperation with pharmaceutical representatives

cooperation with drug information centres

pharmacist's information and advisory role on medicinal products

health-educatory activity, health promotion

pharmacist's information and advisory role on new drugs, drug availability, and drug

remuneration and on drugs formulated in pharmacy

pharmacoinformatics in hospitals

6. Administration activity

documentation of special pharmacy activities

evidence documentation of addicting drugs

data process from prescriptions, prescriptions control

communication with insurance companies, preparation of prescriptions, billing

billing of customers, process of bills for suppliers

accountancy ways fundamentals (data collection, disposition for additional process)

ways of banking orders

pharmacy stock taking

pharmacy staffing

Recommended activities

(The major part of these activities is realized in the certain pharmacies, mostly in the hospital pharmacies. These activities are intended for student's proficiency extension, they are not strictly required, but there is expectation for their widening in more community pharmacies in the future.)

searching for the patients claiming individual dispensing (discreet area, detailed discussion)

patient medication records

informative force potential of the prescription

continuous education of the pharmacists

clinical pharmacy

hospital drug positive index, drug committee, antibiotics policy

preparation of the special dosage forms: cytotoxics, parenteral nutrition (all-in-one)

drug and sanitary device control during storage at the hospital wards

ward pharmacy

participation at the clinical studies, ethic committee

therapeutic drug monitoring