

## SUMMARY

### WASTE PHARMACEUTICALS IN PHARMACIES OF THE CZECH REPUBLIC II.

**Student:** Valicková L.

**Tutor:** Kotlarova J.

**Dept. of Social and Clinical Pharmacy, Faculty of Pharmacy in Hradec Kralove,  
Charles University in Prague, Czech Republic**

**Background:** The waste pharmaceuticals are pharmaceuticals, which lost their guaranteed quality, efficiency and safeness. That is why they couldn't be used for treatment. They are hazardous waste, with which must be manipulate as the case may be.

**Aim:** Map the way of waste pharmaceutical from a patient, which commits waste pharmaceutical to a pharmacy. The pharmacy ensures his liquidation through a special firm.

**Methods:** Inquiry through the checklists in the pharmacies of the Czech Republic in July and August 2005. In all were got at 172 checklists from 159 pharmacies.

**Results:** There are accepted waste pharmaceuticals in all 159 monitored pharmacies. Patients handed over waste pharmaceuticals most frequently to pharmacists (51,8 % pharmacies). In the 73,2 % pharmacies were waste pharmaceuticals leave in original casing, in the remaining pharmacies unpacked their workers waste pharmaceuticals within the frame of reducing the volume waste. Receiving jar for waste pharmaceuticals was accessible for patients only in the 16,4 % pharmacies and was located most frequently in the dispensing room (22,6 % pharmacies). The waste pharmaceuticals, which come from pharmacies, were put in the 47,8 % pharmacies in the same receiving jar by workers of pharmacies. The other parameters of receiving jar: container (23,8 % pharmacies), size 50 liters (30,8 % pharmacies), blue color (22,0 % pharmacies), labeling by legend (36,3 % pharmacies), plastic material (70,7 % pharmacies) and cover (43,9 % pharmacies). Weighted quantity of waste pharmaceuticals, which was amassed in a pharmacy during one month, was most frequently 10 kg (17,0 % pharmacies). Transport of waste pharmaceuticals from pharmacy was realized most frequently once in a month (27,0 % pharmacies). In the 15,4 % pharmacies do it company Marius Pedersen a.s. Evidence of waste pharmaceuticals was administrated in the 63,7 % pharmacies. Cost for liquidation of waste pharmaceuticals pays state by regional authority in the 80,5 % pharmacies. Reminders to problems of waste pharmaceuticals were most frequently about wasteful use of pharmaceuticals (16,9 % pharmacies).

**Conclusions:** In the inquiry were finding informations of actual situation in section of waste pharmaceuticals from patients. Handover of waste pharmaceuticals to the pharmacy ensures their safety and effectual liquidation without undesirable effect to health of human or animal.