

## THE ABSTRACT

Charles University in Prague

Faculty of Pharmacy in Hradec Králové

Department of Pharmacology & Toxicology

**Student:** Blanka Virtová

**Supervisor:** Prof. RNDr. Jiří Lamka, CSc.

**Title of diploma thesis:** Results of parasitological diagnosis and evaluation of drug administrations in population of wisents in the game enclosure Židlov I.

Presented thesis deals with monitoring of parazitostatus in small bison (*Bison bonasus*) population bred in game enclosure Židlov during the years 2011 - 2012, its evaluation, designing appropriate anthelmintic administrations and assessing therapeutical effects. Several parasites were identified with the use of ovoscopic and larvoscopic methods focused on trematodes, parasites of gastrointestinal tract and lungs; fluke, roundworm (*Chabertia ovina*, *Ostertagia* spp., *Trichuris* spp.) and tapeworm eggs (*Moniezia* spp.) were determined. Mr. M. Kašný (Institute of Parasitology, Faculty of Science, Charles University in Prague) confirmed two species of flukes, *Paramphistomum cervi* and *Fasciola hepatica*.

The anthelmintic chosen for the therapeutic administration was albendazole, we performed during the vegetative season (2011 year) totally three administrations in increasing overall therapeutic doses administered via medicated feed. Treatment was mainly focused on the check of trematodoses. The efficacy of drug administrations were continually evaluated, we have found out that the prevalence of positive findings of trematodes was the lowest in the highest dosage regimen, that is after the albendazole administration in scheme 5 x 15 mg/kg bodyweight. Bison's parasitoses were at the beginning of 2012 year under control.