

Abstract

Charles University in Prague, Faculty of Pharmacy in Hradec Králové

Department of Pharmacology and Toxicology

Candidate: Mgr. Pavla Koláčková

Supervisor: Doc. RNDr. Vladimír Semecký, CSc.

Title of the diploma thesis: *Neoadjuvant therapies in patients with oesophageal carcinoma and the effect of therapy on renal function*

The aim of this work is to compare the formulas used to estimate the glomerular filtration. The selected group of patients are patients with early oesophageal cancer who are treated with neoadjuvant therapy. This therapy consists of radiotherapy and chemotherapy, which consists of cisplatin and fluorouracil. Cisplatin has nephrotic effects.

Methodology strives to describe as accurately as possible the current condition of the patient. The patient's characteristics consists of a biochemical analysis, a anamnesis of the patients and an analysis of the renal function. The effect of comorbidities and concomitant pharmacotherapy on renal fiction is monitored.

Results of this work provide a comparison of individual calculations. An individual renal anamnesis has been created for each patient, including a comparison of individual glomerular filtration estimates. The overall number of patients is affected by an unfavourable prognosis, involvement of some them in clinical trials and a rapid progression of the disease.

The output of this work will be a comparison of the glomerular filtration estimates and its practical application in the calculation of administered cytostatics.