

Abstract

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Title of rigorous thesis: Pharmacotherapy of diabetes mellitus followed up in diabetes clinic

This rigorous thesis describes current approach to therapy of type 1 and type 2 diabetes mellitus in adult patients. The theoretical part includes subchapters related to evaluation of diabetes mellitus compensation, non-pharmacological measures and especially pharmacological treatment of this disease. Additionally it sums up key information about drugs available on the Czech market (metformin, pioglitazone, sulfonylurea derivatives, repaglinide, acarbose, dipeptidyl peptidase 4 inhibitors, glucagon-like peptide 1 analogs, gliflozines, insulins and insulin analogs) and recommended therapy. Furthermore separate subchapter is dedicated to continuous subcutaneous insulin infusion with an insulin pump. The experimental part introduces therapy of the disease on sample of 100 patients (50 type 1 diabetic patients and 50 type 2 diabetic patients) in a selected diabetes clinic. In addition to the pharmacological treatment and its results, selected patient data (for example age at which a diagnosis was made, duration of the illness, some comorbidities etc.) are also mentioned. Patient's medical records were the source of information. Data collection took place from October 2016 to May 2017. The second subchapter of the experimental part of the thesis includes the output from questionnaires, which were filled in by diabetics visiting the above-mentioned clinic. The results from both subchapters of the experimental part were processed into graphs and tables. Considering the individual approach to patients, the therapeutics ways and their effects were also illustrated on some casuistries. The next section of the thesis discusses current strategy of the pharmacotherapy of diabetes, certain benefits deriving from defined treatment as well as economic influence. The conclusion sums up the practical importance of each drug/ drug class. It emphasises once more the necessity of individual approach and importance of compliance with non-pharmacological measures.