

ABSTRACT

Our bachelor thesis is focused on problematic issues of Type 2 diabetes mellitus. This kind of disease is increasing in today's population, with the presence of increasing obesity, it greatly affects patient with diabetes disease. The aim of this bachelor thesis is to describe pathogenesis of Type 2 diabetes mellitus, which is contributed to the metabolic syndrome and insulin resistance. We also describe the acute complications of the disease (e.g. hyperglycaemic hyperosmolar coma, hypoglycaemia) and then consecutive complications (e.g. diabetic nephropathy, diabetic retinopathy). The thesis is also focused on diagnostic laboratory methods of Type 2 diabetes mellitus (determines e.g. venous plasma glucose, glycated haemoglobin, C-peptide), which are essential factors for early detection of metabolism disorders of sugars and fats and which could be potential indicators for the development of diabetes mellitus and could provide early dietary and therapeutic treatment.