EFFECTS OF STATINS ON LIPID AND CARBOHYDRATE METABOLISM IN PATIENT WITH TYPE 2 DIABETES AND CARDIOVASCULAR DISEASES.

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Objectives: Patients with diabetes mellitus (DM) type 2 is a group of high cardiovascular risk. The incidence of coronary heart disease in their 2-4 times higher than in the population without diabetes, 80% of cases of diabetes combined with hypertension. At the same time any change in lipid metabolism leads to increased cardiovascular risk in patients with type 2 diabetes. Statins is first-line drugs in patients with dyslipidemia.

Methods:

The study involved 15 patients with type 2 diabetes and dyslipidemia in mean age 59,8±1,03 years, among them, 11 women and 4 male. All patients was prescribed statins in mean dose 4 mg per day for 3 month. During the study were determined the levels of glycated hemoglobin (HbA1c) and lipid status before and after treatment.

	Total	Triglycerides	Low-density	Very low density	High-density	HbA1c,%
	cholesterol		lipoprotein	lipoproteins	lipoprotein	
Before	5,64±0,2	1,77±0,2	3,73±0,2	0,51±0,05	1,49±0,08	7,39±0,4
treatment						
(n=15)						
After	4,38±0,2 *	1,65±0,2	2,53±0,2 *	0,51±0,06	1,48±0,08	7,54±0,3
treatment						
(n=15)						

Results:

Analyzing the results obtained in the groups of patients a significant decrease in levels of total cholesterol, low-density lipoprotein. Triglyceride levels decreased to normal range after 3 months. Statistically significant increase in glycated hemoglobin was not confirmed.

Conclusions: Application of statin leads to the likely reduction in levels of total cholesterol, low density lipoprotein, indicating that effective treatment of dyslipidaemia in patients with type 2 diabetes. Statistically significant effect on glycated hemoglobin was not observed.



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