

# INFLUENCE OF HYPERCALCEMIA IN THE TYPE 2 DIABETES

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**Introduction:** In recent years there have been studied the influence of hypercalcemia on the risk of type 2 diabetes and the status of carbohydrate metabolism in patients with hypercalcaemia.

**Objective:** to investigate the prevalence of type 2 diabetes in patients with hypercalcemia compared with patients without hypercalcemia.

## **MATERIALS AND METHODS:**

1000 patients

from 18 to 96 years:

- the average age: 54,68 ±16,96 ;
- 727 women;
- 273 men;

## **Examination:**

- total calcium;
- total protein;
- Creatinine;
- cholesterol;
- Triglycerides;
- the analysis of morbidity : (osteoporosis, kidney stones, cholelithiasis, ulcer disease, type2 diabetes hypertension, coronary heart disease, cardiovascular events, cancer, fractures in history).

## **RESULTS:**

### **PREVALENCE OF TYPE 2 DIABETES**

<b>Group of patients</b>	<b>patients without hypercalcaemia</b>	<b>patients with hypercalcaemia</b>
<b>The number of patients</b>	<b>974</b>	<b>26</b>
<b>The number of type 2 diabetes</b>	<b>118</b>	<b>5</b>
<b>%</b>	<b>12,1</b>	<b>19,2</b>

Significant differences were detected in the prevalence of type 2 diabetes in patients with hypercalcemia and in patients without hypercalcemia ( $\chi^2 = 0,57$ ,  $p < 0,0001$ ).

## **CONCLUSION:**

The results of the study have shown an increasing prevalence of type 2 diabetes in patients with hypercalcaemia. The results may indicate the influence of hypercalcemia in the frequency of manifestation of type 2 diabetes.

