

# EFFECT OF LECITHIN CONTAINING DRUG WITH CALCIUM CITRATE ON MINERALIZED POTENTIAL OF ORAL LIQUID IN PATIENTS WITH HIGH INTENSITY OF DENTAL CARIES

O. Volkova

Scientific adviser: MD, prof. Riabokon E.N.

Kharkov national medical university

Department of Therapeutic Dentistry (Head of department: prof. Riabokon E.N.)  
Kharkov, Ukraine

It is known that lecithin (phosphatidylcholine) is a source of orthophosphate and choline, has the ability to perform as activator of enzymes responsible for mineralization of hard dental tissue. Calcium citrate from all salts of calcium is the most easily absorbed and used in violation of mineralization processes.

**Purpose.** To evaluate the caries-preventive effect of "Lecithin-2" containing calcium citrate and lecithin as a source of phosphorus on mineralized potential of oral liquid by type of micro crystallization of dried drops of patients with a high intensity of dental caries.

**Materials and methods.** 115 patients from 19 to 24 years old were examined. In the main group were 51 patients with high level of caries intensity, the control group - 46 patients with low level of caries intensity. After the initial clinical examination for patients of the main group were given «Lecithin-2», in daily dosage of 600 mg 3 times a day for half an hour before meals to complete resorption in oral cavity. The duration of prophylactic course was one month, twice a year. Evaluation of the degree of mineralized potential of oral liquid in dried drops was repeated after a prophylactic course and then after 3, 6, 12 months later.

**Results.** The results of microscopic examination of the microcrystals in dried drops of oral liquid observed that in main group was increase mineralized potential to 2 times than in control group, that was reflected also on quality characteristic of microcrystals. A year later on 52,3 % more prevalent II type of microcrystals in dried drops of oral liquid in main group.

**Conclusions.** Lecithin-calcium complex leads to normalization of mineralized potential of oral liquid in patients with a high level of intensity of dental caries. This

indicates on increase of preventive effect, caries resistance of teeth, which leads to decrease of solubility of tooth enamel.

**Summary:** On the basis of clinical trials proved schemes prevention of dental caries in young patients with high intensity caries. The use of scheme in prevents lecithin-calcium complex helped raise microcrystalization of saliva in one year of observation.