

## ***Camelyn in treatment of periodontitis.***

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The majority of patients address to the dentist with complication forms of caries - with pulpitis and diagnosis of periodontitis. From them of 15-20 % with chronic forms (4), which are principal cause of loss of teeth.

Processes an inflammation can provoke such complication as : abscess, a phlegmon, osteomyelitis, and also odontogenous sepsis, odontogenous mediastinitis – these diseases can become as a big threat for healthy and accordingly vital dangerous for patients (1) in that way , effective treatments of a periodontitis remains actual problem in stomatology.

Recent years, has been revealed, numerous mechanisms of development of chronic periodontitis. In etymology of the diseases, main defiant reason is existing of the microbus factor (streptococcus, staphylococcus , gram-positive and gram-negative bacillus bacterium, etc.).

Destructive area, which exists on a tip of root of tooth, is cause the germ of infection. Local irritable reaction, depends on a condition of an organism, from local and the general immunity (2).

Microphage and neutrophils excrete enzyme of collagenase in a zone of inflammation, this enzyme promotes destruction of the collagen's tissue . Which becomes cause allergic of an organism?

During inflammation antigens accumulates in periodontium, endotoxin of antigen, influences on immune system on tissue located around of root teeth and destructs the local immune barrier , and process of treatment and results are adverse.

Periapical destructed area is not reducing contemporary methods of treatment, and also inclusion in medical process of various medicines, not always yields positive results in regeneration of bone tissue and treatment of the chronic form of periodontitis, for revealing new, effective remedy , medicines and methods of treatment researches continues.

As is well known, very uncomfortable full and high-grade, deep cleaning the main channel of tooth from the rests of a pulp in patients with endodontii.

even after diligent machining histological analysis shows the remains, of necrosis tissue which contains micro organisms. At processing by endo-dontium tools in apical parts of the channel appear organic and inorganic incrustation, which often infected.

Existing numerous lateral channels, also complicates mechanical cleaning. Tooth becomes as open system for micro organisms also exists possibility of infection through cavity and from periapical areas to occur re- infection, of devital teeth.

Also should be marked the absence of protection factors of natural immunity which is given by blood vessels of a pulp.

Strength action of medicine for disinfection in input of the channel is decreases, because medicine enters into chemical reaction with components of a pulp and dentin.

Stomatology doctor manage only promotes decrease degree of impurity. For high-grade treatment of tooth, the root should be sterile and protected from micro organisms for avoiding the subsequent invasion (5).

According to the aforesaid it is possible to conclude - that complex therapy of a chronic periodontitis demands: high-quality ( endo-dontin ) manipulation, using of antiseptic and non steroid anti-inflammatory remedy , correlation therapy .-which carries out stimulation of regenerative processes.

Carries out stimulation of regenerative processes.

With this purpose in our clinic it was used Camelyn it is local product and possesses with immunomodulation action. Camelyn represents non- carbohydrate fraction of honey which has been received in 1946-1948.

In I - IV century up B.C., was known, treatments with activity products of bee. Honey was used for conservation of different products, scourges, for embalming. In the book of XII century \_ Cigni saeqimoy” and IXVI century –ladigar Daudi” - are presented numerous recipes of treatment by honey in Georgia.

In 17 century. The missionary priest Akandzhelo Lombert being in Georgia - in the memoirs wrote - I can tell from my experience, that the most excellent honey all over the world- is in “ Kolkhide”

In our epoch, development of chemistry has given opportunity of studying of chemical elements, has enabled deeper studying of a chemical compound of honey. In spite of these researches are continues , but already for today scientific achievements are impressionable (3).

Camelyn contains biologically high effective, activity products of bee: Phenols, benzoates, aldehydes, ketonals , cumarines, furocumarines, ethers, aromatic and aliphatic acids.

Camelyn a stimulator of immunomodulation activity, increases humoral and cellular immunity, possesses with anti-inflammatory, sedative, stimulates regeneration processes.

The purpose of researches was, to study efficiency of Camelyn during treatment of a chronic periodontitis. In experiments was involved 2 group of patients.

First – control group treatment was carried out by classical, traditional method (18 – diseased teeth).

Second group – Experimental (21 diseased teeth) was used as a traditional method of treatment and also complex therapy with Camelyn.

In traditional method was foresee development of possible pathogenetic aspects of during the inflammatory process - had been opened crown of tooth (cavity,) and instrumental processing of channels for the remove of necrotic tissue as well pathologically changing infected dentin.

Endodontal manipulation were carried out strictly in line of method “Grown down”

Channel was treated by antiseptic solution, in purpose to remove endotoxine, was used diathermy coagulation. under the temporary filling, (for 4-5 day) in teeth channels was left turunda with anti-inflammatory, ferments antibiotics, and with sulphanilamide and etc. in accordance form of disease.

In experimental group. After similar processing in tooth channels was placed and left turunda with 35 % Camelyn solution.

Efficiency of Camelyn was estimated by objective criteria – decreasing or stopping of exuding from channels, patients do not have a pain in case of closure, teeth.

In case of complication existence of opportunity to cut short pain, without further complication and Painlessly - fill teeth channels. Final filling of teeth channels was made in combination by paste Gutraliser (or Sealapex) and sticks of gutta-percha.

Results of observation had shown - in experimental group, where was involved in treatment process also Camelyn (in comparison with control) groups, number of repeated visits has reduced (1)

### ***Number of visits***

#### **(schedule 1)**

| Form of chronic periodontitis. | Control group   |                  | Experimental group |                  |
|--------------------------------|-----------------|------------------|--------------------|------------------|
|                                | Number of teeth | Number of visits | Number of teeth    | Number of visits |
| Easy chronic                   | 4               | 1.75 ± 0.55      | 5                  | 1.0 ± 0,05       |
| Granulated                     | 6               | 2.33 ± 0.31      | 6                  | 1.33 ± 0,47      |
| Granuliferous                  | 5               | 2.0 ± 0.31       | 4                  | 1.25 ± 0.25      |
| Acute chronic process          | 3               | 3.0 ± 0,58       | 6                  | 1.5 ± 0.20       |

**In experimental group** in 15 patients, 15 teeth were closed after first visit, the others 6 (2 - with the diagnosis - the granulated periodontitis, 1 – with granuloma and 3- with complicated chronic periodontitis) teeth channels were closed after second visit.

### **In control group was following picture**

5 Patients - with Granuliferous 1 – granuloma and 1 - with complicated chronic periodontitis) for closure of teeth channels were required 3 visits.

Should be marked that, in one case with complicated chronic periodontitis - was required to make 4 repeated visit.

Results of observation have shown efficiency Camelyn during treatment - in comparison with control group, - term of treatment was reduced to 1, 8-times.

In a month after treatment, the patients have stopped complaints.

Radiological researches have shown, that destructive areas around of 19 teeth (48, 7 %) start reduced, from them 12 (30,8 %) - in experimental group and 7 (17,95 %) in control group.

Results of radiological research also have shown, that regenerative process of tissue of bone more intensively, it gives us the basis to assume that Camelyn possesses stimulation effect.

Remote results are dependent; from quality of channels obstruction and from quality of a material using for filling a teeth channels . For cause of mentioned we plan to continue researches in these directions.

Thus, we can conclude following- At inclusion Camelyn in process treatments periodontitis , efficiency of treatment is increased , painful symptoms are stopping, liquidated an inflammation, and reduced treatment's term.

Receiving results specifies the subsequent prospect of using, Camelyn In a stomatologic practice.

### ***Literature***

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## Resiume

### *Camelyn in treatment of periodontitis.*

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Had been presented results of clinical study of Camelyn in combination with other therapeutic treatment, in patients with for the various form of disease. Camelyn is local product which was (received) produced from the special sort of honey and contains biological high active products. Camelyn possesses with immunostimulation, anti-inflammatory action, activates regeneration process, has analgesic effect.

Had been carried out observation on 2 groups of patient with chronicle periodontal.

First group. Patients were treated in traditional way – had been opened crown of tooth (cavity,) and instrumental processing of channels for the remove of necrotic tissue as well pathological infected dentin, in order to remove endotoxin, had used treatment with antiseptic solution and diathermy coagulation. In dependence on therapeutic indication, for the checking of hermetic condition - under the temporary filling, in teeth channels was left turunda with anti-inflammatory, ferments antibiotics, and with sulphanilamide

Second group. After similar processing in tooth channels was placed and left turunda with 35% Camelyn solution.

### **Result of our observation had shown:**

Camelyn - in combination with other therapeutic treatments, in patients with chronic periodontal, had caused: faster stop of painful symptoms, liquidation of an inflammation, and reduction of treatment's term.