

**IN THE TREATMENT OF CARIES DISEASE AND IN THE
PROFILACTICS OF THIS DISEASE, THE APPLICATION OF THE
CAPSULE OF TOOTH WASHING “AERODENT”**

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ABSTRACT

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This useful model is a capsule specifically designed for rinsing teeth and oral cavity for use in dentistry as well as in the field of Otolaryngology. It can be widely used in the treatment of various diseases of the oral cavity, as well as in their prophylaxis through a dental capsule, that is, it can be applied to oral stomatitis, trophic ulcers, injuries of the mucous membranes, caries of the teeth, as well as organic changes in the hard tissue of the tooth, its diseases.

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Urgency. Currently, children from 1 to 5 years are widespread diseases of the oral mucosa stomatitis and dental caries. For the prevention and treatment of these diseases, you can use a dental cleaning capsule “Aerodent”.

Currently, there are increasing varieties of dental cleaners for children, but their inefficiency and difficulty of use leads to an increase in infectious diseases of the oral cavity, stomatitis and dental caries.

Purpose. Now in the world use a *Water flosser (WP-660E2-instruction-manual.pdf)* and *DENTAL SPA* water floss irrigator they are not used for the treatment of diseases of the oral cavity and teeth, but only for their prevention. Model «**Aerodent**» is different from them.

The benefits of «Aerodent» next

- a. the capsule uses a medicinal extract instead of water.
- b. Our utility model is multi-chamber, that is, it has 30 tubes that help to clean teeth from all tooth surfaces and tooth gaps.
- c. The main function of our model is quick and quality treatment of purulent inflammation of the oral cavity.
- d. using the cleaning capsule is very simple and one-step process, it can be used by children.
- e. It can be used as a toothbrush to neutralize acids and preserve the normal bio-environment of the oral cavity.

This utility model can be used in dentistry and otolaryngology for washing teeth and oral cavity. The cleaning capsule can be used for the treatment and prevention of oral stomatitis, trophic wounds, mucosal damage, dental caries and organic changes in the hard tissues of the teeth.

The main purpose of using cleaning capsules:

- a. cleaning and neutralization of acids from tooth surfaces after eating.
- b. Normalization of the pH of the oral environment.
- c. Recovery eousa the oral cavity and reduction of pathogenic microorganisms.
- d. Save organotrophic teeth and gums.

Correct formulation of fast, cheap, effective treatment and prevention of dental caries and stomatitis.

Dental capsule «**Aerodent**» consists of 2 parts “cap corresponding to the shape of the tooth furrow” and “ampoule extract”. These parts castaway capsules are connected and are used for cleaning the contact surfaces of the teeth(fasiec contactus), maintaining the internal ph of the medium, the normalization of aobozu the oral cavity.

Ampoule for the extract is a special hermetic vessel, has a tube through which the extract under high pressure passes into the vessels of the Capa. The ampoule can be made of Nickel or silicone. The volume of the ampoule is 800 cm³ and contains 800 ml of liquid. A single use consumes 10 ml of liquid, which means that it can be used about 80 times. The liquid comes out of the ampoule as an aerosol. It is used by children after meals to preserve the constancy of dentition, and to reduce food residues and pathogens in the oral cavity. The

child using "Aerodent" puts on the mouthpiece and press the aerosol button, the extract released under high pressure cleans the teeth of the upper jaw from top to bottom and the lower jaw from bottom to top.

MATERIAL AND METHODS

The composition of the extract is a liquid suspension, tincture, and transparent liquid; to determine the type and composition of the extract, the type of disease, stage, patient's condition, age and purpose of application are taken into account.

Depending on the type and condition of the disease is determined by the composition of aidosti ampoules:

1. Separate extract for the treatment of stomatitis.
2. A separate extract for the treatment of dental lesions.
3. Separate extract for washing and prevention of diseases of the oral cavity.

The dental capsule can be used by children from 4 years old. Use after eating, putting on a mouthpiece press the aerosol button. In this case, the released aerosol spreads from the dental cavities throughout the oral cavity.

Indications for use of dental capsules: for the prevention before and after dental lesions and diseases of the oral cavity, stomatitis, gingivitis, periodontitis, inflammation of the oral mucosa, caries, cleaning and prevention of the formation of yellow plaques in the crown of the tooth, to protect the oral cavity from pathogens.

Contraindications to the use of dental capsules: mainly in surgical operations performed in the oral cavity, acute focal and disseminated purulent inflammation, acid and thermal burns of the oral cavity and in children with not erupted teeth.

RESULTS

24 patients used this capsule, 14 patients often had stomatitis and were used for the treatment of stomatitis, and the remaining 10 were used for the prevention and maintenance of a normal oral environment. Patients who often had stomatitis, after using the capsules, the disease was not observed for the last three months. Users for the prevention and maintenance of a normal oral environment by supporting the "Aerodent" said that they sleep having problems with the capsule.

CONCLUSION

Currently, for fast, effective, harmless and cheap treatment and prophylaxis of dental caries and stomatitis in children and adults, you can use a cleaning tooth capsule. Dental capsule «Aerodent» provides a clean environment in the oral cavity, the normal condition of the teeth and oral mucosa. Patients breathe freely, and feel clean cold air. Antibacterial substances kill pathogens. Scientific patented No. FAP – 20190031.

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