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Dental bugel prostheses

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Abstract: Tooth loss is always an unpleasant fact, which most often affects elderly people. But such problems are everywhere, even among young people who lose their teeth for various reasons: from injuries to chronic systemic diseases. All of this significantly deteriorates the quality of life and leads to serious consequences, including impaired dictation and inability to chew food. Prosthetics will help to save the position, which will restore not only the aesthetics, but also the functional state of the dentofacial system. If the installation of non-removable bridges and implants is contraindicated or inaccessible to the patient due to the high cost, the dentists of the "May" clinic recommend considering removable prostheses.

Keywords: Tooth loss, consequences, including impaired dictation and inability to chew food.

Introduction:



Types of removable dentures:

- The removable models structurally represent an imitation of the gums and teeth made of:

- made of soft inert plastic (most often acrylic) - it is light, does not cause discomfort and does not depress;
- metal elements - this can be both a base and a crown;
- ceramic elements - used to imitate lost units.

With their help, you can distribute the chewing load and the pressure it creates on the entire gum, not just on the chewing area. This helps protect the mucous membrane and alveolar processes from atrophy and sedimentation.

There are two main types of such prostheses:

- Complete, used in the absence of all units from above or below, allows you to immediately replace the entire row;
- Partially removable, used in cases where one or more units remain in the patient's mouth.

When partial prosthetics are performed, the best, most durable, and long-lasting option is a styrofoam prosthesis.



What is a bogey prosthesis?

- A Bugel prosthesis is a variation of a partially removable prosthesis, which is based on an arch that acts as a base and allows you to evenly distribute the load. The word "bugel" translates from German as "arc."
- It is possible to use bugabock models only if the own teeth are preserved on both sides of the jaw. They serve as a support for the cartilage, allowing for the even distribution of the chewing load and ensuring the firm fixation of

the prosthetic product in the oral cavity.

- New-generation dental prostheses should not be associated with "grandmother's jaws," which are regularly dropped and put into glasses with water at night. Most commonly, arched models are made with an open nose, which does not affect taste or reduce sensitivity, they are thin and elegant, and they can be removed once every few months for additional care, such as professional cleaning.
- The advantages of bureaucracy are indisputable:

- compact sizes that ensure maximum comfort during operation;
- comfort when wearing - they do not rub, do not interfere with communication, do not provoke speech disorders;
- a long period of uninterrupted work is 5-10 years, which allows you to live a full life;
- high strength and reliability - patients may not worry about the fact that the artificial jaw will fall out of their mouth or break at the most inopportune moment;
- less load on the mucous membrane of the gums - the tissues do not experience increased loads, as the arc does not press on the gum;
- strong fixation to the support units - with proper installation, there will be no problems with wearing the product.

Partial dentures can be worn not only by the elderly, but also by people with toothless jaws. Often, young people also use such products. For example, a model without a nose is an excellent temporary option for treatment and preparation for implantation, allowing the patient to maintain self-confidence, comfort, and dictation.

There are several drawbacks in the models, however, doctors note:

- a higher price compared to fully plastic ones, but it is justified by increased reliability and strength;
- if the clasper type of attachment to the front coroners is used - this destroys the aesthetics, which does not please many patients;
- the minimum necessary number of retained support crowns - four on each side of the jaw, and if they are less, it is impossible to guarantee the possibility of prosthetic treatment and comfortable operation.

Types of bony prostheses:

There are several types of upper and lower braces. All of them have their own characteristics, advantages and disadvantages:

- Partial removable tissue protects with telescopic fixation. This is the most expensive type of handbag. They are miniature and allow you to achieve maximum aesthetics. A feature of their fixation is the installation of a metal crown in the form of a cap on the supporting teeth, and a prosthesis is applied to them from above according to the principle of a telescope;
- On claspers. Claspers are special metal hooks

that extend the arc that lies at the base of the structure and are attached to the base of the support unit. Allows you to distribute the load on your own crowns and partially remove it from the soft tissues of the gums. The cost of such a prosthesis is relatively low;

- On lock fastenings (attachments) - is a double construction connected to a lock. One part is located on the prosthesis itself, and the other is attached to the crowns located on the supporting units. Prolonged clamping ensures strength and reliability of the fastening;
- Shining. Recommended for people with periodontal diseases and atrophy. From the arch, the outgrowths, as if "wrapping" the base of each crown, create additional fixation and prevent teeth from shaking and falling. These models also create additional chewing load protection for the thighs;
- Quadrotti - plastic products with ceramic crowns and light soft hooks for attachment to support units. In essence, they are a type of cluster model.
- There is also a classification of wrist prostheses depending on the material:

1. Metallic. The most popular and affordable. Telescopic models can be made solely on a metallic basis;

2. Metal-free. Expensive but sufficiently aesthetic options, used only in cases of allergic reactions to metal alloys;

Plastic. Their frame arch is made of acetal plastic, which ensures a small weight of the product, so the main advantage of this bugle system is lightness;

Metal-ceramic. Their "teeth" are made of ceramics based on metal, which ensures both aesthetics and strength, but in price they are more expensive than metal and plastic.

Indications and contraindications:

Like any medical procedure, the use of bony prosthetics has both indications and contraindications. Bugle systems are shown in the following situations:

- End defects in the dental rows on one or both sides of the jaw;
- The absence of several consecutive teeth within the dental row, including frontal ones;
- Unable to install a bridge or implants;
- Increased crown stiffness;

Preserving units and preventing their shake-up in periodontitis or periodontitis.

Among contraindications, the following are distinguished:

- Oral mucosal inflammatory processes - they must be treated first, otherwise it will be impossible to perform prosthetics;

- Severe atrophy of alveolar processes;

Insufficient tooth spaces for fixation - they are necessary for reliable installation;

- Deep bite - in case of such anomaly of the dentofacial system, the bagel is not used;
- There is no flexibility of the gum mucosa;
- Too high fastening of the tongue;
- Completely lack of own teeth, or their ability to
- There is no flexibility of the gum mucosa;
- Too high fastening of the tongue;
- Complete absence of own teeth or their number less than four;
- Diabetes and other endocrine diseases - they disrupt metabolism and complicate prosthetics;
- Oncology;
- Drug addiction;
- Mental disorders;
- Cardiovascular diseases.

It is also not recommended to make and wear a cuff during pregnancy.

The process of manufacturing bogy prostheses:

All stages of manufacturing upper jaw models can be divided into clinical (on admission to the dental clinic) and laboratory (conducted in the dental laboratory):

1. The doctor collects the medical history, examines the patient, and, if necessary, prescribes an additional diagnosis. Our clinic has all the conditions and modern equipment for this - you will not have to run to different institutions and doctors;

Prints are taken and a plaster impression of the future jaws is created, on the basis of which the dental technician will make a prosthesis. This is called "diagnostic model";

The remaining teeth in the mouth are smoothed and crowns are installed on them. The "May" clinic operates the "Anti-stress" program for patients who are afraid of the sound of the drumstick and the dental chair. It involves the use of nitric oxide, intravenous sedation, or general anesthesia during all unpleasant dental procedures.

The gypsum model is removed from the wax film, and based on this data, the metal frame and plastic

elements of the buckle structure are cast;

At the doctor's appointment, there is residual adjustment. It is important to achieve maximum convenience - getting used to the budget model can take several weeks. Adaptation involves immersing the plastic layer under the jaw so that the chewed food does not fall under the arch.

Bogy prosthesis care:

In contrast to frameless plastic prostheses, whose service life is 2-3 years, buckles are designed for 5-10 years of use. And in order for the product to serve you as long as possible, it needs full-fledged systematic care:

- It is necessary to ensure thorough hygiene twice a day using a medium-tough brush and a paste;
- After each meal, it is advisable to rinse the mouth with a rinse;
- It is advisable to remove the structure at least once a day and clean it additionally, although some items can be worn for weeks or even months without removing;
- Do not clutch the product in your hand, clean it on a soft surface, otherwise it may break;

Occasionally bring the prosthesis to the dental clinic for professional cleaning;

- At least once a year (or even better - once in half a year) you should visit the treating doctor to check the formation of super contacts (points of excessive bite and uneven load on the remaining teeth and gums). It is important to regularly monitor the preservation of the correspondence of the oral mucosa and the cartilage to prevent rubbing or atrophic processes. The doctor will also remove the tooth deposits that are beginning to form if necessary.

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Price of new-generation dental prostheses without fangs:

It is impossible to immediately, without examination, to name the cost of a wrist prosthesis.

It can vary greatly depending on the following factors:

- the number of teeth requiring prosthetics;
- the patient's preserved teeth;
- type of buckle structure and its fixation;

- manufacturing materials;
- the qualification of the doctor and the reputation of the clinic;
- dental technician professionalism.

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