

All on four - Over implant removable total dentures

All On Four (all-on-4) – Hybrid denture



For most of the patients, dental implants are the best prosthetic solution for replacing natural teeth that are missing.

However, patients with insufficient bone volume may have been discouraged to use implants or may refuse to undergo a time-consuming, painful and costly procedure of bone grafting prior to placement of dental implants.

With the All-on-4 technique, the patient can have aesthetic, functional and immobile (such as a prosthetic bridge) teeth, which in many cases can be constructed and placed within a single visit. The required dental implants (4 implants) are also placed in areas where there is not enough bone.

The success rates of this prosthetic intervention are among the highest in implantable prosthetic, about 98%

Advantages of “all-on-four”:

- substantially eliminating the need for bone grafting (less invasive procedure, less expense);
- the procedure is very tolerable and of short duration, along with the full prosthetic restoration of the mouth,
- it can also be performed in patients with diabetes mellitus, osteoporosis or other health conditions that are often contraindications for bone graft placement,
- everything is done in one day - not just surgery, but also the placement of fixed (non-removable) teeth with immediate function,
- this prosthetic structure gives the patient the feeling of his natural teeth,

- offers high hygiene, easy maintenance and cleaning,
- Cost saving - usually about half the cost of alternative implant techniques (bone grafting and placement of more than 4 implants).

Over implant removable total dentures



A pattern of treatment, where two implants will change the relationship of a problematic jaw denture with the patient.

The placement of two dental implants (classic or locator) for the mandible is the simplest and equally effective solution.

In fact, the problems of lack, restraint, stability and comfort are solved directly after placing the implants.

The lower denture is securely stabilized to the two dental implants and can be removed from the patient at all times for cleaning and hygiene purposes.

The denture of the mandible may be a new structure or the denture already carried by the patient. The use and modification of the old classical denture of the patient is our first choice. A prerequisite for finding the old denture in good condition and giving us space for the "precise junctions", elements located on the implant heads and connecting the denture with the implants.

Studies over the last decade have continued to demonstrate the enormous benefits of this mandibular cure, which is referred to as the "minimum target of treatment" for total mandibular edentulation.

In addition, other studies suggest that assessment of quality of life and oral health is higher for patients with denture on two implants than for patients with conventional dentures.



This is of great importance, indicating that this simple therapeutic rehabilitation with the placement of two implants can actually restore a patient's quality of life.

The entire surgical phase (placement of the two implants) as well as the modification of the conventional lower

denture can often be completed in one visit.

Necessary precondition is the careful assessment and preliminary planning by the intervener.

Potential candidates for this implantable prosthetic treatment are the unhappy patient of the classic conventional denture suffering from discomfort and lack of restraint. Also, the partially edentulated patients with severe problems in their existing teeth, who can not successfully support a prosthetic restoration either fixed or removable.

Research has shown that neither age nor osteoporosis is an obstacle to successful healing and integration of implants and to the choice of this therapeutic prosthetic solution.

In the denture of the upper jaw and based on differences in bone volume, as well as in the density of the upper jaw bone and other anatomical factors, we apply this particular implanted total denture to at least four and in some cases six implants. Placement of more than two implants may be followed in some overlapping total dentures of the mandible.

Finally, the choice of each case of the lower jaw is different and we might consider it more difficult to approach the maxilla. A careful evaluation of all the data will lead us to a successful treatment plan.