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### Citation

Ivanov K.S. (2021), Prospects of Practical Use of the Method of Fixing a Lower Denture with a Soft Friction Pad. *Int J Dent & Ora Hea.* 7:4.

**ISSN 2471-657X**

Published by  
Biocore Group |  
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# International Journal of Dentistry and Oral Health

## Rapid Communication

### Prospects of Practical Use of the Method of Fixing a Lower Denture with a Soft Friction Pad

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**Article History:** **Received:** April 03, 2021;  
**Accepted:** April 15, 2021;  
**Published:** April 22, 2021.

### Abstract

A painless, gentle method of fixing the denture consists in using a replaceable soft friction pad that has a high coefficient of friction with respect to the prosthesis and to the wet tissue of the oral area. The optimally selected parameters of the soft pad ensure the achievement of comfortable conditions for its use. The simplicity, reliability, and efficiency of the proposed method contribute to the preservation of a healthy state of the oral cavity and create high competitive conditions for its practical use.

### Keywords

Fixing Method; Soft Friction Pad.

### Declaration of Conflicting Interest

The author declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

Existing methods of lower denture fixing use a rigid fixation which leads to painful consequences. A painless, gentle method of denture fixing [1] consists of using a replaceable soft friction pad with a high coefficient of friction in relation to the prosthesis and to the wet tissue of the oral area (Fig. 1). The friction pad is able to fix the denture while maintaining minimal mobility relative to the oral cavity. The elasticity of the pad significantly eliminates the effect of solid food particles on the oral cavity under the prosthesis. These particles are pressed into the elastic pad and do not irritate the living tissue. The elastic gasket allows you to eliminate the painful phenomena and degradation of the contacting living tissue that occur with the constant rigid fixation of the prosthesis with the help of creams, powders, and other means.



**Figure 1** Lower denture with soft friction pad

The optimally selected parameters of the soft pad ensure the achievement of comfortable conditions for its use.

The main parameters of the pad: material, thickness, a composition of the impregnating friction

substance.

The pad material is foam rubber.

The thickness of the pad is inversely dependent on the elasticity of the material in the range from 1 to 5 mm.

The composition of the impregnating friction substance is determined by its chemical formula.

The shelf life of the soft pad according to the results of an experiment conducted during 1 year on a group of 10 people, including the author of the article, was from 1 to 2 months. The use of a soft pad creates a comfortable response environment in the oral cavity and the absence of any negative consequences of its use.

The simplicity, reliability, and efficiency of the proposed method of fixing the lower prosthesis with a soft friction pad contributes to the preservation of a healthy state of the oral cavity and high competitive conditions for its practical use.

The author of the article (professor in the field of biomechanics, co-author of many patents for the treatment of damaged joints) offers cooperation in patenting and wide practical use of the proposed method of fixing the denture.

### **Financing of the work**

The work was carried out within the framework of the research program "Development of adaptive electric drives", planned at the Almaty University of Energy and Telecommunication on the topic no. I-3-13-02.

### **Reference**

1. Ivanov K.S. "Way of Fixation of Tooth Prosthesis". Acta Scientific Dental Sciences 3.1 (2019): 71-72.