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Clinical evaluation of the two-stage procedure of rehabilitation of edentulous patients with functional disorders of the masticatory system

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Aim: In edentulous patients using complete dentures with incorrect construction, the symptoms of the temporomandibular system may occur. This is due to the unsymmetrical effects of chewing muscles and overloading of the temporomandibular joints. The aim of the study is to assess whether the proposed method of clinical-laboratory management affects the recovery of symptoms of masticatory system dysfunction in edentulous patients with functional disorders of the masticatory system.

Materials & Methods: The study involved a group of 60 edentulous patients (58 to 68 years) using complete dentures up to 1.5 years with symptoms of functional disorders of the masticatory system. The patients underwent a physical examination, physical examination, a functional examination of the masticatory system and a clinical evaluation of the used dentures. In the first stage of treatment, patients underwent a modification of the occlusal surface of the used dentures with the use of a composite material in the position of the centric relation. Then the patients were divided into two groups. Group I (examined) - 30 patients with complete dentures made according to the bio functional system. Group II (control) - 30 patients who were eventually treated with dentures made according to the conventional method. After three months of using new dentures, clinical examinations were repeated in both groups. The obtained test results were subjected to statistical analysis.

Results: After the implementation of the therapeutic procedure, the pain was eliminated already in the first stage of treatment. The use of new complete dentures has improved the range of jaw movements and regression of pain.

Conclusions: The applied method of rehabilitation influences the restoration of the proper relation in the musculoskeletal system and the disappearance of symptoms of the masticatory system.

Biography

Magdalena Orczykowska is a specialist in prosthodontics education in University of Jagiellonian, Medical College. She is a Faculty of Medicine and Dentistry in 1997-2002. She worked as an Private dental practitioner in 2002. Her research interests and achievements are Participation of numerous dental courses, national and international conferences and of their own. Since 2004 she is an author of several original papers printed in Polish magazines and also a member of the Polish Society of Dentistry.

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