

**Gębska, M et al, 2018 Abstract**

## **EMG Evaluation Of Masseter Muscles In Patients With Myogenic Disorders**

### **Objective**

The aim of the research was to evaluate the bioelectrical activity of masseter muscles in patients with myogenic disorders of the stomatognathic system.

### **Results**

The results testified to generating greater static and dynamic loads on the surfaces of the temporomandibular joints. The study found that higher amplitude values in the participants with myogenic disorders of the stomatognathic system confirmed that in patients with myogenic pain disorders a **surface electromyography (sEMG)** test is a valuable addition to a diagnosis.

### **Participants and Researchers**

The study was conducted in a group of 104 women with myogenic pain disorders.

The researchers were *Magdalena Gębska, Katarzyna Weber-Nowakowska, Ewelina Żyżniewska-Banaszak, and Łukasz Kołodziej*, all from Pomeranian University of Medical Science, Department of Musculoskeletal System Rehabilitation, Szczecin, Poland; *Krystyna Opalko*, High School of Education and Therapy, Kazimiera Malinowska, Poznań, Poland, and State Vocational College, Staszica, Piła, Poland; *Wojciech Garczyński*, High School of Education and Therapy, Kazimiera Malinowska; and *Piotr Rynio*, Specialist Hospital in Piła, Department of Gynecology and Obstetrics, Piła.

### **Methods**

The patients had undergone **surface electromyography (sEMG)** testing of the masseter muscles during relax and workload. Recording of **sEMG** signals from the masseter was done using a dual-channel **NeuroTrac MyoPlus2** device (Verity Medical) with **NeuroTrac** software. During the EMG testing the Clinical Mode was used.

Recording of **sEMG** signal was done with a patient sitting, grinding her teeth with maximal possible strength for duration of five seconds. The testing of bioelectrical activity of the masseter muscle during maximal contraction (grinding of teeth in a position of maximal intercuspation) was evaluated.

The full abstract can be found at

[https://www.researchgate.net/publication/330602202\\_Evaluation\\_of\\_bioelectrical\\_activity\\_of\\_masseter\\_muscles\\_in\\_women\\_with\\_myogenic\\_disorders\\_of\\_the\\_stomatognathic\\_system](https://www.researchgate.net/publication/330602202_Evaluation_of_bioelectrical_activity_of_masseter_muscles_in_women_with_myogenic_disorders_of_the_stomatognathic_system)