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## Does pain in the masseter and anterior temporal muscles influence maximal bite force?

Short title: Does TMJ muscle pain influence bite force?

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### Highlights

- Maximum bite force of patients with muscle pain and bruxism was observed.
- Pain treatment protocol included occlusal splint, education and physiotherapy.
- Bite force in first molar region increased after treatment.
- A pain reduction was verified after treatment.
- Relationship between pain level and bite force cannot be supported in this paper.

### Abstract

#### Objective:

The aim of this study was to evaluate changes in pain and muscle force, and the relationship between them, in patients with muscle pain and bruxism, prior to and after treatment.

#### Methods:

Thirty women with bruxism and myofascial pain (Ia) were included in this study. Sleep bruxism diagnosis was made based on clinical diagnostic criteria, and awake bruxism diagnosis was made by patient questionnaires and the presence of tooth wear. The diagnosis of myofascial pain was established according to the Research Diagnostic Criteria for Temporomandibular Disorders (RDC-TMD). Dentulous or partially edentulous patients (rehabilitated with conventional fixed prostheses) were included in

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