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Title: Arthroscopic assisted release of lateral pterygoid muscle versus scarification of retrodiscal tissue in management of internal derangement of temporomandibular joint

Abstract:

Background: internal derangement of the temporomandibular joint is characterized as a disorder within the joint, in which there is a displacement of the disc from its usual anatomical position between the mandibular condyle and the articular eminence. Internal derangement often progresses from a stage of clicking with normal maximal mouth opening through one where clicking gradually ceases with varying degrees of restriction in mouth opening to a stage of closed lock. TMJ arthroscopy is a valuable diagnostic and therapeutic tool for various intraarticular diseases; this technique is especially useful for the treatment of disc displacement, avoiding the complex previous surgical procedures.

Purpose: This study is to compare arthroscopic assisted release of lateral pterygoid muscle to retrodiscal scarification in the treatment of internal derangement of temporomandibular joint.

Patients and methods: This is a prospective, interventional, comparative clinical study that was carried out on 16 adult patients with TMJ anterior disc displacement diagnosed via adequate clinical examination and MRI findings. They were divided randomly into two equal groups: Group I: Eight patients were treated by arthroscopic assisted release of the lateral pterygoid muscle. Group II: Eight patients were treated by arthroscopic assisted scarification of the retrodiscal tissues. All patients were followed up via clinical and MRI.

Results: all clinical parameters regarding jaw opening, lateral excursion, and joint pain were improved and all patients reestablished normal position of the anteriorly displaced disc confirmed by postoperative MRI.

Conclusion: arthroscopic assisted release of lateral pterygoid and scarification of retrodiscal tissues were found to be highly effective maneuver in management of anteriorly displaced discs not responding to the conservative treatment.

Keywords: Internal Derangement, Lateral pterygoid release, Retrodiscal scarification
Biography

Dr. Ahmed Ellatif is working as a Lecturer of Oral and Maxillofacial Surgery, in Tanta University. As a faculty member in Oral and Maxillofacial Surgery Department, he worked and experienced in Making and presenting many seminars in different Oral and Maxillofacial Surgery topics in the Department of Oral and Maxillofacial Surgery.