

Temporo-mandibular Joint Meniscopexy with Mini-Screw Anchors.

Background: Anterior disc displacement without reduction of the temporomandibular joint (TMJ) is a relatively common finding, and generally, the treatment option for these patients involves surgery, which can include multiple procedures such as arthrocentesis, eminectomy, vertical subsigmoid osteotomy, or meniscopexy. **Objective.** The purpose of this study is to clinically evaluate the effectiveness of mini-screws as anchors for meniscopexy in recurrent TMJ dislocations. **Methodology.** This was a retrospective, descriptive, non-experimental study that included 20 patients with anterior TMJ disc displacement without reduction. All patients were subjected to meniscopexy with mini-screws as anchors in combination with eminectomy. **Results.** The mean age of the participants was 26 years (ranged from 18 to 33 years), and only 3 patients were females. Postoperative hospital admission period ranged from 1 to 4 days. Mean postoperative pain scale was 2.3 (ranged from 1 to 5). Postoperative complications were noticed in 6 (30%) patients. Ten days postoperatively, mouth opening ranged from 8 to 23 mm, and TMJ clicks were noticed in 8 (40%) patients. None of participants had recurrence of anterior TMJ disc displacement 1 year of follow up. **Conclusion.** Mini-screws as an anchors for meniscopexy in patients with recurrent

anterior TMJ disc displacement without reduction are safe and effective technique