

## Single-Needle Arthrocentesis (Shepard cannula) Vs. Double-Needle Arthrocentesis for Treating Disc Displacement without Reduction

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**Objectives:** To compare single- vs. double-needle arthrocentesis with visco-supplementation for treating disc displacement without reduction of the temporomandibular joint.

**Methods:** Fifty-six patients with a magnetic resonance imaging diagnosis of non-reducing disc displacement were included. Arthrocentesis with visco-supplementation was performed on patients in group I using the Y-shaped needle (Shepard cannula) technique; the standard double-needle technique was performed on patients in group II. Patients were evaluated on postoperative day 1, and 1, 3, and 6 months later, patient- and procedure-related parameters were assessed.

**Results:** In both groups, significant improvement in the baseline levels was achieved ( $p < 0.01$ ). Both techniques were equally effective at reducing pain and increasing the maximal mouth opening. The single-needle technique was easier to perform and required a shorter operative time ( $p < 0.01$ ).

**Conclusion:** Single-needle (Shepard cannula) arthrocentesis can be an alternative to the standard technique; however, it might add to the cost of the procedure.

### Biography:

Mohamed Moawad Ibrahim Ghoneim currently working as a lecturer in Oral and Maxillofacial Surgery department, Faculty of Dentistry, Sinai University & he received a Bachelor degree in Dentistry, Master degree, and PhD in oral and maxillofacial surgery. He received residency program in oral, maxillofacial and plastic surgery from 2007 till 2016. He is a member in many researches, continuing education committees and certified clinical trainer and academic lecturer in oral and maxillofacial surgery. Private clinical practice is in temporomandibular joint disorders, Implantology and minor oral surgery.