



Versatility of temporalis myofascial flap as interpositioning material in management of temporomandibular joint ankylosis

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Abstract:

Temporomandibular joint ankylosis is one of the most exasperating handicaps affecting human beings that cause problems in mastication, speech, digestion, appearance & hygiene. Surgical correction of ankylosis involves a variety of procedures ranging from gap arthroplasty & interposition arthroplasty (with or without distraction osteogenesis) to total joint reconstruction. Interpositional arthroplasty has become the mainstay of treatment nowadays as it possibly reduces recurrence and also maintains ramus height to certain extent. Though over the years, the technique for releasing temporomandibular joint ankylosis seems to have been standardized, high recurrence rate is a persistent problem bothering patients as well as surgeons. A variety of materials such as dermal grafts, auricular cartilage, costochondral graft, temporalis muscle and/or fascia flap and fascia lata have been used following surgical release of ankylosis with variable amount of success. Over the years, a pedicled temporalis myofascial flap has given consistently good results when used as an interpositioning material following release of ankylosis. It has the advantage that its arc of rotation can be altered by basing the flap inferiorly or posteriorly. Additionally, its dependable blood supply and proximity to temporomandibular joint make it a versatile flap for lining the glenoid fossa. The muscle and fascia are of adequate thickness, and the long term viability of the flap has also been demonstrated. The temporalis myofascial flap satisfies most of the requirements of an ideal interpositioning material following release of ankylosis. Its excellent blood supply, close proximity to the joint, versatility, ease of handling and minimal donor site morbidity is the characteristics which make it an effective interpositioning material to be used for management of TMJ ankylosis.

Biography:

Amarjeet Gambhir graduated in dentistry from GDC,



Indore in 2002 & completed his post-graduation in Oral & Maxillofacial Surgery from NHDC, Mumbai in 2006. He completed his 3 year Senior Residency from Lady Hardinge Medical College & Hospital, New Delhi in 2009. He then worked as a faculty at different dental colleges and was promoted to Professor, Oral & Maxillofacial Surgery in 2016. He again joined Lady Hardinge Medical College as a Faculty in 2016. He has worked as a co-investigator in pilot project on school-based sealant programme 2017 under Ministry of Health & Family Welfare, Government of India. He is a reviewer of various international journals & has published more than 15 national & international papers in indexed journals. He has attended a number of conferences & workshops and presented more than 10 papers in national & international conferences/ webinars. He has also authored 3 books for dental postgraduate entrance examinations.

Publication of speakers:

1. Amarjeet Gambhir et al., To Evaluate the Effect of Different Adhesive Materials on the Microleakage of Bonded Amalgam Restorations: An in vitro Study; *Int J Clin Pediatr Dent*, 2012 Sep; 5(3):185-9.

Webinar on Dental Health | September 19, 2020 | London, UK

Citation: Amarjeet Gambhir; Versatility of temporalis myofascial flap as interpositioning material in management of temporomandibular joint ankylosis; Dental Webinar 2020; September 19, 2020; London, UK