



#366 - Oral

## Management Of Temporomandibular Joint Degenerative Disorders With Human Amniotic Membrane

TMJ Disorders

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### Objectives

Temporomandibular arthritis is a chronic, degenerative pathology causing some of the most common forms of mandibular pain and dysfunction. Various therapeutic approaches have been proposed to relieve symptoms and improve mandibular function, of which hyaluronic acid infiltration is the most widespread, but requires several treatment sessions to achieve the required result. The extensive use of and the results achieved by surgery with the amniotic membrane (AM) have highlighted its potential, including antimicrobial, anti-inflammatory, anti-fibrotic and anti-apoptotic properties, in addition to its capacity to promote epithelialisation and cell differentiation.

### Methods

This work describes the treatment of Temporomandibular joint disorders using injectable freeze-dried AM. The AM were harvested and distributed by the Fondazione Banca dei Tessuti di Treviso

### Results

To date, 5 patients have been injected with AM. The parameters for assessing the efficacy of this treatment are collected in a special pre- and post-treatment form and calculated according to a quantitative scale. The analysis is based on the assessment of masticatory capacity, movement-related pain, rest-related pain, level of functional limitation, and mouth-opening ability. The treatment is also assessed in terms of perceived patient benefit and level of tolerability of the infiltration. Each patients showed important improvements in term of pain relief and functional ability.

### Conclusions

The findings are promising, and the use of AM seems to be a potential therapeutic alternative for the treatment of these pathologies, particularly considering the benefit obtained after a single treatment.