An outline of frenectomy: A survey

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Abstract
The frenum is a mucous layer crease that connects the lip and the cheek to the alveolar mucosa, the gingiva, and the hidden Periosteum. Unusual frenum connection may prompt trouble in discourse, rumination just as stylistic issues. It may endanger the gingival wellbeing either because of an obstruction in the plaque control or because of a muscle pull. The administration of a particularly deviant frenum is cultivated by playing out a frenectomy. The current article is an assemblage of a brief outline about the frenum, with an emphasis on the etiology, signs, contraindications, benefits and the disservices of different frenectomy methods.

Keywords: connects, frenectomy, connects, Unusual

Introduction
Tasteful concerns have prompted an expanding significance in looking for dental treatment, determined to accomplish wonderful grin. The presence of a deviant frenum being one of the aetiological variables for the determination of a midline diastema, the emphasis on the frenum has become fundamental [1]. A strange labial frenum can prompt midline diastema, backslide of orthodontic treatment, gingival downturn, Obstruction with maintenance of dental replacement and traded off gingival wellbeing due to helpless plaque control [2, 3]. It has been seen that a strange frenum can be a marker of a disorder like Ehlers-Danlos condition, Infantile hypertrophic pyloric stenosis, Holoprosencephaly, Ellis-van Creveld disorder and Oro-facial-computerized condition. This paper feature the grouping of frenum connection as well as conclusion, sign, contraindication and treatment of deviant frenum connection by different strategies.

Etiology
The maxillary labial frenum creates as a post-eruptive leftover of the ectolabial groups which associate the tubercle of the upper lip to the palatine papilla. At the point when the two focal incisors emit generally isolated, no bone is kept second rate compared to the frenum. A V-formed hard split between the two focal incisors and an unusual frenum connection results. The mandibular frenum is considered as distorted at the point when it is related with a diminished vestibular profundity and an insufficient width of the joined gingiva [2, 3].

Classification
Writing audit mirrors that maxillary labial frenum has different morphology and clinical ramifications Literature review reflects that maxillary labial frenum has diverse morphology and clinical implications.
1. Sewerin Classification [4] (Based on morphotypes)  
2. Placek Classification [5] (On the attachment location)

Sewerin Classification (1971)
This classification is based on the morphotypes.
- Simple frenum
- Persistent labial frenum
- Simple frenum with an appendix
- Simple frenum with a nodule
- Double frenum
- Frenum with niche
- Bifid frenum
• Frenum with two or more variations at the same time.

**Placek Classification**

The labial frenal attachments have been classified as mucosal, gingival, papillary and papilla penetrating, by Placek M et al (1974). This classification is based on the attachment location.

1. Mucosal: When the frenal fibres are attached up to the mucogingival junction.
2. Gingival: When the fibres are inserted within the attached gingiva.
3. Papillary: When the fibres are extending into the interdental papilla.
4. Papilla Penetrating: when the frenal fibres cross the alveolar process and extend up to the palatine papilla.

Diagnosis of Aberrant frenum Test/Blanch Test

Abnormal Frenal Attachments are detected visually, by applying tension over it to see the movement of papillary tip or blanching produced due to ischemia of the region. Clinically papillary and papilla penetrating frenum are considered as pathological. A frenum can become a significant problem if tension from lip movement pulls the gingival margin away from the tooth, or if the tissue inhibits the closure of a diastema during orthodontic treatment.

The management of such aberrant frenum can be treated by Frenotomy or Frenectomy Procedure. Frenotomy: is the incision and the relocation of the frenal attachment. Frenectomy: is complete removal of the frenum including its attachment to the underlying bone and may be required for correction of abnormal diastema between the maxillary central incisors – (Friedman 1957) Indications of Frenectomy

- To eliminate tension on the gingival margin
- To eliminate a frenum that penetrates the gingival Papilla.
- To facilitate orthodontic treatment.
- To eliminate a frenum that makes it difficult or impossible to use a toothbrush effectively in the area.
- To control recession of facial gingiva. Contraindication of Frenectomy In Ugly Ducky Stage, the space can be a normal growth characteristic during the primary and mixed dentition and generally is closed by the time the maxillary canines erupt. In young children, the frenum is generally wide and thick, becoming thinner and smaller during growth. In that case frenectomy is contraindicated.

**Treatment Modalities Used For Frenectomy**

Three most commonly used methods for frenectomy are following:

- **Scalpel Method**
- **Laser**
- **Electrocautery**

The ordinary procedure includes extraction of the frenum by utilizing a surgical tool. Nonetheless, every one of the methods vary from the accompanying points of view: sedative necessities, cutting attributes, hemostasis, mending time, unwanted impacts and cost included. The upsides of surgical tool technique is ease of use, cost viability, accuracy, control, protection of tissue respectability and unrivaled related injury recuperating. Yet, the weaknesses of the surgical tool incorporate more noteworthy prerequisite of sedation, need of stitching, helpless hemostasis, unfavorable post-employable sequelae like agony, expanding and uneasiness.

Electrosurgery has been utilized since 1928 in dentistry for a assortment of delicate tissue systems. Their coagulative impact guarantees a bloodless territory and clear perspective on the usable field. Notwithstanding, burden of the electrosurgery it might lead to deferred mending and increment the danger of wound dehiscence.

Lasers are quickly supplanting the conventional treatment modalities because of their benefits of improved accuracy what's more, representation, negligible or no dying, decreased patient uneasiness, more limited mending time and no horrible postoperative sequelae.

**Different Techniques used for frenectomy**

**Ordinary/Classical Method**

The traditional procedure was presented by Archer (1961) and Kruger (1964). This strategy is an extraction type frenectomy which incorporates the interdental tissues and the palatine papilla alongside the frenulum.

**Indications**

This strategy is acted in midline diastema cases with an unusual frenum to guarantee the evacuation of the muscle filaments which were probably interfacing the orbicularis oris with the palatine papilla.

**Strategy:** The lip is expanded and the frenum was locked in with a haemostat to the profundity of the vestibule. Cuts are put on the upper and the under surface of the haemostat, three-sided frenum tissue is eliminated. Basic sinewy connection deep down is uncovered. Level cut is given onto these strands isolating and taking apart from the bone and the edges of the injury are tenderly subverted also, re-approximated.

Benefits: Easy to perform. Burdens: Scar tissue arrangement, loss of papilla and high backslide rate.

**Sign:** This method is demonstrated when there is hypertrophy of the frenum with a low inclusion, which is related with an interincisor or diastema and when the sidelong incisors have showed up without causing the diastema to vanish and furthermore in instances of a short vestibule.

**Strategy:** After extraction of the stringy tissue, two sideways cuts are made in a Z style, one at each finish of the past territory of excision. Two pointed folds are then delicately subverted and pivoted to close the underlying vertical cut on a level plane. Benefit: This strategy gives benefits, for example, acquire in connected gingiva in the area recently covered by the frenum, great shading match, recuperating by...
essential goal, insignificant scar arrangement and counteraction of coronal transformation.

V-Y Plasty

**Sign:** V-Y plasty can be utilized for stretching the limited region, similar to the expansive frenum in the premolar–molar region. In this method, frenum is locked in with a hemostat and an cut is made as V on the under-surface of the frenal connection. The frenum is moved at an apical position and the V formed entry point is changed over into a Y while it is stitched. However, burden of this procedure is it neglects to give good stylish outcomes if there should arise an occurrence of a thick hypertrophied frenum [10]. Global Mill operator Technique The Miller's procedure was pushed by Miller PD in 1985 [14].

**Indication**

This procedure was proposed for the post-orthodontic diastema cases. In this strategy, frenectomy combined with a horizontally situated pedicle join useful and stylish contemplations The ideal time for playing out this medical procedure is after the orthodontic development is finished and around a month and a half before the apparatuses are eliminated [1, 15].

Benefit of this procedure is, it give an orthodontic solidness without a tasteful penance. In this method, Mending happens by essential goal and the transseptal strands are not disturbed precisely thus, there is no deficiency of the interdental papilla [16, 17, 18].

The recognition of deviant frenum may go about as a marker in the conclusion of a wide cluster of syndromic and non-syndromic conditions. Unusual frenal connections either in the size or area of frenum may prompt the advancement and determination of midline diastema, gingiva downturn or discource issues. Such conditions require complete extraction of the frenum connection to the fundamental alveolar process. An deviant frenum can be eliminated anybody of the proposed method of frenotomy also, frenectomy in writing. A practical and a tasteful result can be accomplished by an appropriate method determination, in view of the kind of the frenal connection.

**Reference**