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**Group:**

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**Pathology Question:**

What can cause the loss of the interdental papilla following implant placement? And what can be done to deter this?

**Report:**

The interdental papilla are the triangular shaped points of gum in between teeth. On occasion where a patient is receiving dental treatment that includes implants these are areas that are susceptible to trauma and receding. Gum tissue is normally surrounding the alveolar bone and crest and when the bone structure is altered the gum changes too. Therefore during an implant, when the bone is altered the gum has a tendency to recede. The thinner the facial bone wall is, the higher the chance of the gum receding or also becoming thin. Thin or receded gums will have a negative effect on the long-term survival of the implant and also show undesirable traits such as loss of volume, color alteration, and peri-implant recession. These are less than esthetic and the papilla can also lose functional components if this tissue is lost.

It is very hard to rebuild interdental papillae after they have receded, so Bone Grafts and Soft Tissue Grafts/Augmentation are indicated at the time of the implant to preserve tissue stability. Placing a bone graft into the area surrounding the dental implant will help to keep the volume of the bone at an optimal level or amount and this in turn during healing will encourage the gums to stay at a healthy width and height. Soft tissue grafting is also indicated as this will help replenish any traumatized tissue in the area. Clinical Cases show that autogenous soft tissue grafts are effective to prevent tissue receding and also to help the area to heal appropriately. In addition to these factors, basic surgical considerations should also be remembered and conservative, minimally invasive technique should be used.

**References:**

### Electronic Document Format(ISO)

FRIZZERA, Fausto et al. Treatment of peri-implant soft tissue defects: a narrative review. *Braz. oral res.* [online]. 2019, vol.33, suppl.1 [cited 2020-09-29], e073.

Available from: <[http://www.scielo.br/scielo.php?script=sci\\_arttext&pid=S1806-83242019000200603&lng=en&nrm=iso](http://www.scielo.br/scielo.php?script=sci_arttext&pid=S1806-83242019000200603&lng=en&nrm=iso)>. Epub Sep 30, 2019. ISSN 1807-3107. <http://dx.doi.org/10.1590/1807-3107bor-2019.vol33.0073>.

Article Information/ Link: <https://pubmed.ncbi.nlm.nih.gov/31407443/>

**Title: Soft tissue-related complications and management around dental implants**  
**1st Author: Tali Chackartchi**

Screenshot of Article:

The screenshot shows the PubMed interface. At the top is the NIH logo and 'National Library of Medicine National Center for Biotechnology Information' with a 'Log in' button. Below is the 'PubMed.gov' logo and a search bar containing 'dental implants soft tissue' with a 'Search' button. Under the search bar are links for 'Advanced' and 'User Guide'. Below the search bar are buttons for 'Save', 'Email', 'Send to', and 'Display options'. The main content area shows the article title 'Soft tissue-related complications and management around dental implants' by Tali Chackartchi<sup>1</sup>, Georgios E Romanos<sup>2</sup>, and Anton Sculean<sup>3</sup>. It includes the journal 'Periodontol 2000', volume 2019, issue Oct;81(1), pages 124-138, and DOI: 10.1111/prd.12287. The abstract begins with 'Implant installation for replacing missing teeth is a frequent treatment procedure with high long-term survival and success rates. However, the success of implant therapy may be jeopardized by several complications related to mistakes in treatment planning, surgical procedure, management of hard and soft tissues, and infections. Increasing evidence suggests that the stability of the soft tissues surrounding osseointegrated dental implants may substantially influence long-term clinical stability and esthetics. Therefore, when implant'. On the right side, there are sections for 'FULL TEXT LINKS' with a 'WILEY Full Text Article' button, 'ACTIONS' with 'Cite' and 'Favorites' buttons, 'SHARE' with social media icons, and 'PAGE NAVIGATION' with a '< Title & authors' link.