

## mucoderm® an efficient alternative for peri-implant soft tissue augmentation **Part I**



### Scientific source:

Zafropoulos GG, Deli G, Hoffmann O, John G. Changes of the peri-implant soft tissue thickness after grafting with a collagen matrix. J Indian Soc Periodontol 2016; 20:441-5.  
<https://www.ncbi.nlm.nih.gov/pubmed/28298828>

**Aim:** Determination of the treatment outcome of mucoderm® as an alternative to the autologous connective tissue graft for peri-implant soft tissue augmentation as part of implant site development.

Study design:

Prospective, randomized, controlled clinical trial

Group 1  
mucoderm®

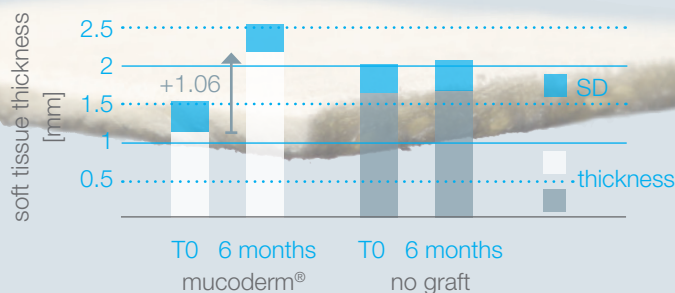
Group 2  
no graft

27 sites in 27 patients

- Implant placement
- Split thickness flap (mucoderm®)/full thickness flap (no graft)
- Repositioning of mucosal flap to cover the matrix/implant
- Measurement of soft tissue thickness with a customized metal stent at 2 sites
- Time points T0 and 6 months postoperatively
- Biopsy at 6 months

**Results:** mucoderm® led to a significant soft tissue increase at peri-implant sites with minimal pain and swelling for the patient when compared to no graft

Results:



- 1 mm below gingival margin increase of 117%
- 3 mm below gingival margin increase of 81%

**Conclusion:** mucoderm® is a suitable alternative to the patients own connective tissue in terms of soft tissue augmentation around dental implants with a mean soft tissue increase of +1.06 mm and good integration/remodeling evidenced by histological analyses.

## mucoderm® an efficient alternative for peri-implant soft tissue augmentation **Part II**



### Scientific source:

Zafiropoulos GG, John G. Use of a Collagen Matrix for Augmentation of the Peri-implant Soft Tissue at the Time of Immediate Implant Placement. J Contemp Dent Pract 2017;18(5):1-6.  
<https://www.ncbi.nlm.nih.gov/pubmed/28512278>

**Aim:** Determination of the treatment outcome of mucoderm® for peri-implant soft tissue augmentation in conjunction with immediate implant placement as an alternative to the patient's own connective tissue.

Prospective, randomized, clinical trial

**Technique 1:**  
envelope flap and  
mucoderm®  
coronally, covered

**Technique 2:**  
coronally repositioned  
flap and mucoderm®  
covered by mucosa

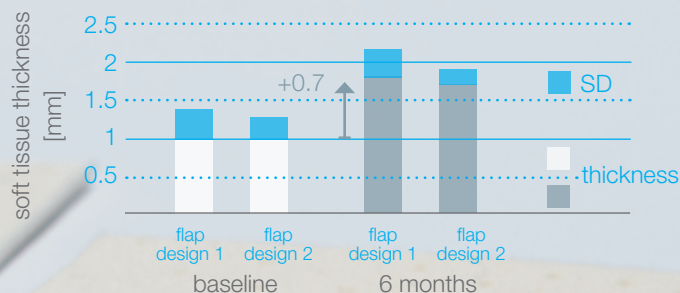
- Tooth extraction and implant placement
- Split thickness flap preparation
- Soft tissue augmentation with mucoderm® positioned on periosteum
- One of the two flap designs
- Measurement of soft tissue thickness with a customized metal stent at 1 side
- Time points T0 and 6 months postoperatively
- CBCT scans after 6 months

Study design:

27 implants in 27 patients

**Results:** mucoderm® led to a significant soft tissue increase at 6 months of immediate implant placement without any signs of complications.

Results:



- 1 mm below gingival margin soft tissue increase of 0.7 mm

**Conclusion:** mucoderm® is a valid alternative to the patients own connective tissue graft, which served to thicken the soft tissue in conjunction with immediate implant placement regardless of the flap design.