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

**Scientific source:**

**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

**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

- 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.
Science Flash clinical study

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

Scientific source:

**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.

- 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:**
Prospective, randomized, clinical trial

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

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

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

- 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.