

SOFT TISSUE STABILITY AROUND SINGLE ANYRIDGE® IMPLANTS INSERTED TO REPLACE CONGENITALLY **MISSING LATERAL INCISORS : A 3D EVALUATION**

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Objectives

The recent advances in 3D image acquisition may help the clinicians to evaluate the stability of soft tissues around single dental implants placed in the aesthetic areas of the anterior maxilla.

Materials and Methods

In the present study, we have utilized an existing software (Geomagic Studio 2012) for the superimposition of 3D surface models of the dento-gingival structures, obtained from intraoral scans (Trios, 3-Shape) of the same pa-tients taken at the delivery of the final crown (S1) and 2 years later (S2), respectively. The assessment of change of soft tissues was performed via calculation of the Euclidean surface distances between the 3D models, and colour maps were used for visual assessment of the location and quantification of changes.



Results

Twenty patients (8 males, 12 females, aged between 17-34 years) with missing lateral incisors were se-lected for the present study. Each patient received one single Anyridge® implant. All implants were followed for 2 years. The changes evidenced between S1 and S2 were minimal, so that an excellent 3D peri-implant soft tissue stability along time was found.

Conclusions

The soft tissue stability around single AnyRidge® implants placed to replace congenitally missing lateral Inclose was excellent. This new methodology allows a detailed quantitative 3D evaluation of peri-implant soft tissue modifications along time. This can help to evaluate treatment results in the aesthetic areas of the anterior maxilla, therefore could be helpful to identify the best treatment modalities (immediate vs early vs delayed implant placement) for achieving and maintaining aesthetic success.

References

Mangano F, Luongo F, Mortellaro C, Han CH, Park KB, Mangano C. Soft tissue stability around single implants inserted to replace congenitally missing lateral incisors: a 3D evaluation. Int J Periodnics Restorative Dent. 2016. In preparation

