

SoftTissue Chamber™ —increased soft tissue volume and high esthetics

Esthetics is one of the most important outcome measurements in modern implant dentistry. The SoftTissue Chamber—a three-dimensional chamber created between the horizontal offset of the implant and the outer design of the abutment—increases soft tissue contact zone and volume, leading to natural esthetic results.

The SoftTissue Chamber has been a key design of the Astra Tech Implant System since 1985. Thus, the data and results on the SoftTissue Chamber are included in the available clinical documentation evaluating the peri-implant soft tissue. SoftTissue Chamber was introduced for the implant DS PrimeTaper Implant System in 2021 and DS OmniTaper Implant System in 2022.

Soft tissue stability

The SoftTissue Chamber allows for an increased soft tissue contact zone and volume, sealing off and protecting the marginal bone¹⁻⁶.

This leads to:

- Long-lasting hard and soft tissue stability⁷⁻¹⁴
- Sustaining formation of connective tissue and collagen fibers^{2, 7, 15-17}
- Maintained crestal bone levels*, which is a prerequisite for a natural interdental papilla¹⁸

High esthetic results and patient satisfaction

Numerous clinical studies show high esthetic results¹⁹⁻³³ with maintained, or even a gain, in papilla height and soft tissue dimensions. Esthetics are evaluated using:

- Pink Esthetic Score^{10-14, 34-48}
- Gingival Zenith Score^{8, 37, 38, 41, 42, 45, 49-55}
- Papilla index^{7, 8, 16, 49-51, 56-67}

Furthermore, high patient satisfaction measured by OHIP^{23, 47, 48, 60, 61, 68-96}, Visual Analogue Scale^{19, 23, 71, 79, 80, 85, 87, 97-103} and other methods^{25, 56, 64, 99, 104-121} is reported.

Conclusion

The SoftTissue Chamber maintains the soft tissue contour, leading to high esthetic results as well as high patient satisfaction.

* See Scientific review “Marginal bone maintenance with Astra Tech Implant System” www.dentsplysirona.com/science

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