

Long-term clinical documentation of the Astra Tech Implant System™

The long-term clinical documentation (i.e. ≥ 5 years) is one of the most important tools showing evidence that the Astra Tech Implant System™ is efficient, reliable and safe. The features of the Astra Tech Implant System marketed today, Conical Seal Design™, MicroThread™, and Connective Contour™, prove good clinical functionality and very well preserved marginal bone after 8–12 years¹⁻⁵.

The moderately roughened TiOblast™ surface has among the longest clinical prospective follow-up period reported in the dental implant literature^{3,5-8}. Recently, also the further developed OsseoSpeed™ surface can present long-term data. Extremely well preserved marginal bone and healthy soft tissues are reported after 5 years of loading in patients treated with OsseoSpeed implants⁹.

A meta analysis including 10 prospective studies on Astra Tech implants, presented the mean marginal bone loss to be 0.24 mm and an average survival rate of 98% after 5 years in function¹⁰. This shows that the Astra Tech Implant System maintains the good hard and soft tissue response over long functional time. Maintained bone levels, good esthetics and high survival rates are confirmed in long-term prospective clinical trials on a variety of indications; treatment with single implants^{4, 11-13}, partially dentate patients treated with fixed partial bridges^{8, 14-17}, totally edentulous patients treated with overdentures^{5, 18-24} or fixed full bridges^{1, 3, 22, 25-27}. Good outcome from implant treated, periodontally compromised patients followed for 5–10 years are also published²⁸⁻³⁰ as well as good results from other long-term retrospective studies^{2, 31-35}.

This Scientific Review on Long-term clinical documentation of the Astra Tech Implant System only cite articles based on studies where all patients have been followed for 5 years or longer.

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