Documentation on single tooth restoration
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Single tooth restorations with Astra Tech Implant System™

The first studies on Astra Tech Implant System™ evaluating the outcome of single tooth rehabilitations were published already in 1997 [1–4]. High implant survival rates (more than 97.8%), extremely small changes in the marginal bone levels (0.0–0.3 mm), and surprisingly small number of abutment screw loosening were reported after 1–2 years in function.

Today, there are close to 40 articles, including 10 year results, published in per-reviewed journals reporting on the proof of concept using Astra Tech implants for single tooth rehabilitations. Examples are:

- clinical performance in posterior [5–7] or anterior [4, 8–17] locations
- clinical performance when applying 1-stage surgery [5, 7–9, 11, 18] combined with immediate loading [10, 13, 19–21] or after placement in extraction sockets [11, 18, 22, 23]
- meticulous esthetical evaluations [14, 18, 20, 24, 25]
- the long-term outcome [7, 11, 12, 15, 26–29]
- bone regeneration using different sinus lift techniques [5, 6, 30, 31]
- periodontally compromised situations [32–34]
- microbiological [16, 35] or antibacterial [36] focuses
- patient evaluated quality of life [37]

Implant survival rates are in general 94–100%, irrespective of surgical technique or location in the mouth. The documentation clearly shows that the supporting bone is maintained around Astra Tech single tooth implants. Maxillary anterior implants can actually obtain a gain in marginal bone levels over a 5 years period [15]. Hereof, esthetics is also well maintained and rated high by patients and dentists [14].

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