Clinical documentation on
ASTRA TECH Implant System™

The ASTRA TECH Implant System has several key features; the design of the implant-abutment connection, Conical Seal Design, the minute threads on the implant neck, MicroThread, the unique contour that is created when you connect the abutment to the implant, Connective Contour, and the OsseoSpeed surface.

The OsseoSpeed surface was launched in 2004 and is a follower and a further development of the moderately rough titanium surface, TiOblast, which has among the longest clinical prospective follow-up period reported in the dental implant literature.1–8

Prospective clinical data reporting on the ASTRA TECH Implant System OsseoSpeed implant shows that it can be safely used in a variety of indications in the maxilla and mandible, with a reported survival rate ranging from 94.5 to 100%,9–38, with only one exception.39 The same good results are reported for immediate loading protocols in the atrophic maxilla,17,18 in sinus lifted/grafted posterior sites,19–27 and after immediate installation in extraction sockets,28–38. Retrospective studies show survival rates ranging from 98.3 to 100% after up to 5 years in function,28,40–45. Moreover, several studies report on good esthetics38,46–51 and high patient satisfaction37,52–67.

Very small changes in Implant Stability Quotient values during the early healing have been recorded for OsseoSpeed implants,23,68–74, which is interpreted as a continuous gain in osseointegration and stability. Prospective clinical studies report on mean marginal bone level changes around OsseoSpeed implants after 1 year18,24,35,49,62,70,71,75–87 (range +0.06 – 0.54 mm), 2 years88,89 (range 0.12 – 0.6 mm), 3 years36,39,69,90–93 (range +1.6 – 0.88 mm) and 5 years72,94 (range 0.1 – 0.16 mm) in function. In fact, the majority of studies report a mean marginal bone loss of 0.3 mm or less after 1, 2, 3 and 5 years of function.

For literature about the specific key features of ASTRA TECH Implant System, please see www.dentsplyimplants.com
References


DENTSPLY Implants

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References


