Clinical documentation on ASTRA TECH Implant System™

The ASTRA TECH Implant System has four 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.

The OsseoSpeed implant (also including short, narrow and Profile implants) has been extensively documented in several prospective clinical studies covering most indications such as: single-tooth restorations, fixed partial/full prostheses, and overdentures with a minimum of 1 year of follow-up. Moreover, results show that the implant can be safely used with a survival rate ranging from 94.5 to 100% with a survival rate ranging from 94.5 to 100%9–29, 97, 103, 104. The same good results are reported for immediate loading protocols in the atrophic maxilla30–32, in sinus lifted/grafted sites33–43 and after immediate installation in extraction sockets14–16, 20, 44–49, 51–53. Additionally, several studies have reported on good esthetics20, 49, 54–58 and high patient satisfaction15, 27, 28, 59–74.

Very small changes in Implant Stability Quotient values have been recorded for OsseoSpeed implants36, 75–78 during early healing, which is interpreted as a continuous gain in osseointegration and stability. Prospective clinical studies report on very small mean marginal bone level changes around OsseoSpeed implants after up to 5 years in function. In fact, for the majority of studies presenting bone level changes from implant placement and up to 5 years of follow-up, an average reduction of 0.3 mm is reported9, 14, 16, 18, 22, 24–27, 29, 30, 32, 37, 42, 47, 48, 50, 57, 66, 68, 75–102.

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


To read more Scientific Reviews please see: www.dentsplyimplants.com
References


