Overdentures supported by ASTRA TECH Implant System™

Prospective clinical studies with the ASTRA TECH Implant System™ show that the survival rate of implants placed in the mandible is the same when comparing overdentures and fixed bridges, irrespective of retaining system used. The use of a ball abutment or a Locator™ for a non-splinted support, as well as the use of a bar attachment for a splinted support, is well documented with a follow-up of 1–4 years, 5 years, and even 12 years. The implants have been placed according to a 1-stage surgical technique or a 2-stage technique. In addition, an immediate loading protocol has been used for overdentures supported by two unsplinted anterior implants, showing good clinical results. One clinical study evaluated the use of 4 short OsseoSpeed™ implants (6 mm) supporting a mandibular overdenture. After 1 year in function, the clinical results were promising, with 96% survival rate of the implants and maintained marginal bone levels.

An overall healthy soft tissue response is reported, with only minor changes in marginal bone levels and very few complications. The reported survival rate for implants ranges from 95% to 100%. Furthermore, high patient satisfaction has been reported. The prosthetic and maintenance care is of great importance in achieving the successful outcome reported with this simple and cost-effective treatment option.

One clinical study compared the use of 4 and 6 OsseoSpeed implants for support of a bar and maxillary overdenture. After 1 year, the clinical results and patient satisfaction were comparable between the groups, suggesting that, for cost-effective reasons, 4 bar-connected implants to support a maxillary overdenture is the method of choice.

The conclusion is that the ASTRA TECH Implant System provides reliable and predictable support for overdentures in edentulous jaws.


References

Reprints can be ordered from references marked with ID No. To read more Scientific Reviews please see: www.dentsplyimplants.com