Documentation on OsseoSpeed™ TX Profile
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OsseoSpeed™ TX Profile

After a tooth extraction or tooth loss, alveolar ridge remodeling occurs as the bone heals. The remodeling has been shown to be more pronounced on the buccal side than on the lingual, often resulting in a sloped ridge in a lingual to buccal direction [1, 2]. When placing a regular implant in a healed sloped ridge the implant can either be installed in level with the lingual marginal bone or in level with the buccal marginal bone. However, this will result in exposed threads on the buccal aspect or unsupported lingual bone, both situations being non-optimal from a long-term esthetical point of view. A more favourable solution in a sloped ridge situation would be to use an implant with a sloped shoulder that fits the bony anatomy, optimizing the bone support thus reducing the risk of losing unsupported marginal bone. The OsseoSpeed™ TX Profile, an implant with a sloped shoulder, was developed in order to facilitate implant treatment in sloped ridge situations.

A clinical multicenter study evaluating OsseoSpeed™ Profile implants in single-tooth positions in patients with healed sloped ridges is ongoing. Sixteen-week re-entry data, measuring buccal and lingual bone levels, showed well maintained marginal bone levels [3]. The patients have been followed for 1 year, no implants have been lost, and the results indicate that the OsseoSpeed Profile implant is a predictable treatment option in cases where the alveolar crest is sloped in a lingual to buccal direction [4, 5].

An implant can also be placed into the fresh extraction socket. However, studies have shown that despite an implant in place, similar remodeling of the alveolar crest occurs, resulting in a sloped ridge in a lingual to buccal direction [6]. Placement of OsseoSpeed™ Profile implants using an immediate implant placement protocol, have shown a nice correlation to the sloped ridge after remodeling and thereafter maintained circumferential marginal bone levels and good esthetic results after 1 year [7].

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