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IMMEDIATE IMPLANT PLACEMENT: THE FATE OF THE BUCCAL CREST - A RETROSPECTIVE CONE BEAM COMPUTED TOMOGRAPHY STUDY

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This retrospective study aimed to analyse the fate of the buccal crest after immediate implant placement (IIP) through the use of cone beam computed tomography (CBCT). In 16 consecutive patients, an implant was placed in a more palatal position after extraction, thereby creating a gap of at least 2 mm between the implant and the buccal crest. Subsequently, this gap was filled with a bone substitute. Preoperatively, immediate postoperatively, and late postoperatively, a CBCT was made to measure the thickness of the buccal crest. After application of the bone substitute, the buccal crest increased in thickness from 0.9 mm to 2.4 mm (mean). At a mean of 103 weeks after IIP, late postoperative CBCT scans showed that the thickness of the buccal crest was compacted to 1.8 mm. In the same period, the height of the buccal crest increased by 1.6 mm (mean) to, on average, 1.2 mm above the implant shoulder. The aesthetic outcome was analysed using the White and Pink Esthetic Score (WES and PES). Both scored high: 8.4 and 11.8, respectively.

Within the limitations of this study, the results of this IIP protocol are promising.

Biography

Tristan Staas graduated from the University of Utrecht in the Netherlands in 1988. Together with his wife who is also a dentist, they founded Staas and Bergmans Zorgvooruwmond in 1990, a praxis for general dentistry, and clinic for aesthetic dentistry and implantology in 's-Hertogenbosch, Netherlands. In 2012 they founded a second office, Staas and Bergmans Expertisevooruwmond, a partnership clinic consisting of various dental specialists working as a team treating patients needing complex therapy. He has focused his practice and teaching interests on immediate implant placement in the aesthetic zone and collaborates with other clinicians working together in their practices in the Netherlands. He provides instruction to colleagues on immediate replacements, aesthetic solutions and the use of 3D technics, and is performing research on these procedures and long-term outcomes.

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