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Objective: to present a multidisciplinary case report in a periodontal patient with high esthetic demands. The patient was treated with an implant in position of tooth 11 using computer assisted implant planning and the placement with static guided surgery.



Materials and methods: A 46-year-old non-smoker female, with periodontal disease and a hopeless prognosis at tooth 11 was treated at the University Complutense of Madrid. Afterwards, we planned the extraction of tooth 11 and alveolar preservation with a xenograft (Bio Oss) and a free gingival graft. Then, the patient underwent an orthodontic treatment during 12 months to improve the position of the teeth and the esthetic parameters in the anterior teeth.



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Implant planning was performed using SMOP Implant Planning System (Smop, Swissmeda, Zurich, Switzerland) by aligning and matching the DICOM files from the CBCT, the STL files obtained from the situation of the mouth after the extraction and from the diagnostic wax-up. The placement of a Conelog 3.8x9mm dental implant (Camlog, Biotechnologies AG, Switzerland) in position 11 was planned according to the protocol for guided surgery. A provisional prosthesis was immediately installed.



Conclusions: nowadays computer assisted implant planning and guided surgery are a valid method to reduce time of treatment and optimization of available bone and accuracy regarding implant position.

