

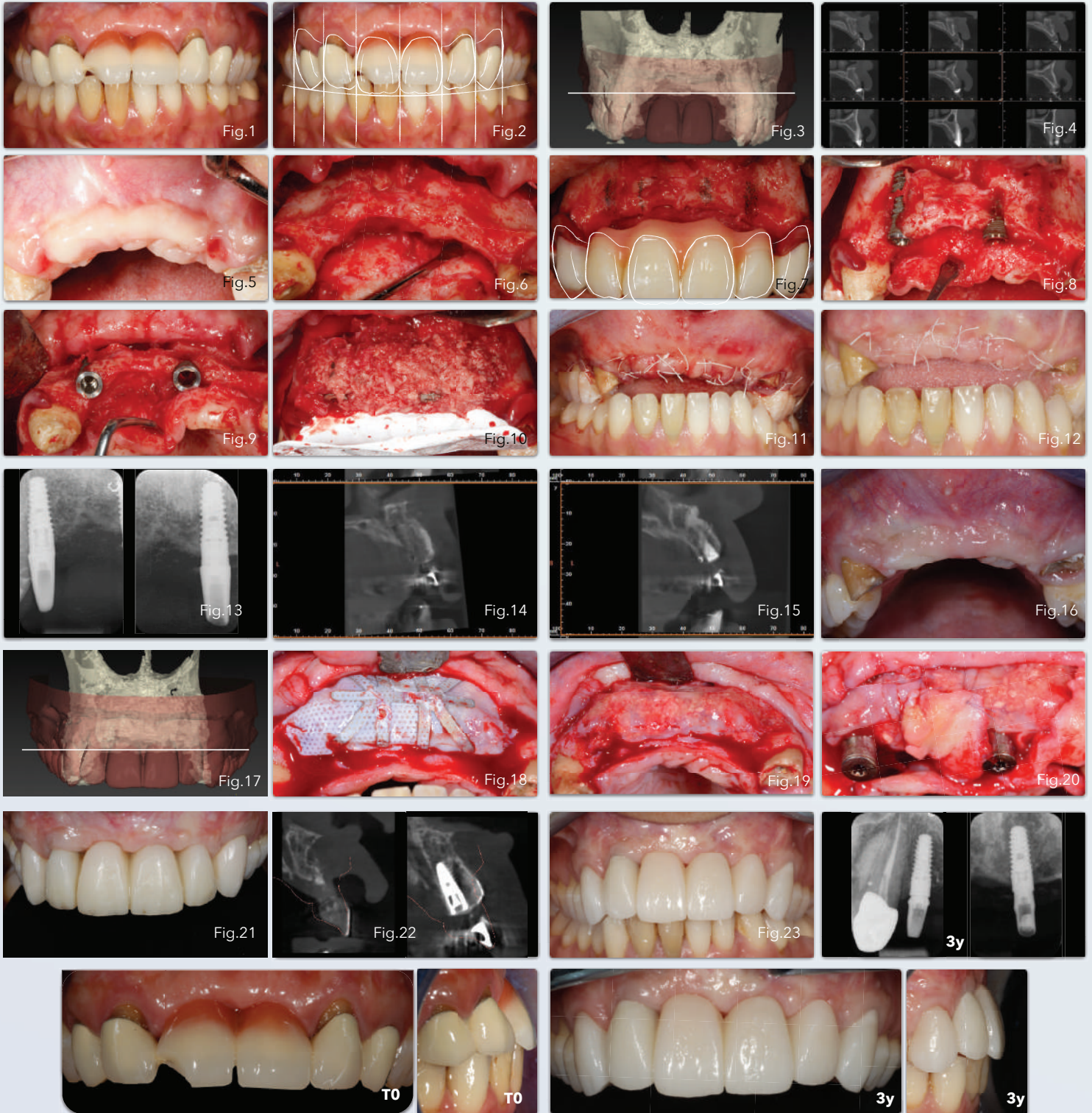
Guided Bone Regeneration in aesthetic zone with d-PTFE Ti-reinforced membrane: 3 years follow up

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The patient, 40 y.o. female, complained for the aesthetic of the upper anterior region, where a fixed prosthetic bridge was placed to rehabilitate the central incisors, extracted due to endodontic reason. A preliminary digital smile design was carried out to set the ideal shape and position of the teeth. Afterwards, the digital planning was compared with the anatomy of the bone defect (Fig.3). For surgical reason the extractions of the 1.2 e 2.2 was planned. After 3 months the

GBR procedure, together with the implant placement, was performed (Fig. 5 to 13). A mix of autogenous bone and xenograft (70vs30) was grafted and covered by a d-PTFE Ti-reinforced membrane, stabilised by micro-screws and bone tacs (Fig. 10). The healing was completely uneventful and the re-entry surgery was scheduled after 10 months (Fig. 16). The second surgical stage consisted in increasing the gingival volumes and the keratinised gingiva (Fig. 18 to 20).



The tissues conditioning in the following months were obtained by modifying the temporary cemented prostheses (Fig. 21). After 6 months a definitive fixed prosthesis made by lithium disilicate, were delivered (Fig. 23). Clinical and radiographic control at 3 years shows a stable integration of implant-prosthetic

rehabilitation with the surrounding hard and soft tissues. The digital planning of the prosthetic rehabilitation can also help to plan with more accuracy the type and the amount of the GBR requested for the clinical outcome of the treatment.