



Lecture Abstract

Dr. Bernhard Giesenhagen, Melsungen/DE

Director Pro-Implant Institute Institute of Implantology and Esthetic Dentistry and International Education Center, Maxillofacial practice in Melsungen, Germany;
Dentist

Main implantological topics:

- Augmentation of hard tissue
- Microsurgical techniques of the soft tissue
- Immediate loading techniques

One step vertical augmentation with bone-rings 6 years' experience

The pre-implant augmentation of bony defects is usually performed with the use

of autogenous bone grafts, followed by implant insertion during a second intervention (three to five months later, depending on graft site).

The technique we described first in 2004 demonstrates that when using close-fitting circular bone grafts, both the vertical three-dimensional augmentation of bony defects and implantation should be performed in a single procedure. The prerequisite for treatment success is recognition of certain physiological factors. To receive the graft we use a trephine drill, with a diameter 1 mm less than that of the trephine drill used to harvest the graft from the chin area, to prepare the implant site. This ensures a very close fit so that a large number of vital cancellous cells are brought into contact with the graft. Absolutely rigid fixation of the graft is aided by an implant. The 6 years-results indicate that if these factors are taken into account, this technique can be recommended for the augmentation of three-dimensional bony defects.