

## Rehabilitation of atrophic alveolar crests with cylindrical sandblasted and acid etched implants: a pilot study

### ABSTRACT

One of the fundamental element for a long lasting, aesthetic implant supported prosthetic restoration is the adequate quantity of the residual alveolar bone, in order to receive and surround the fixture, assuring a good stability of the implant that will support the prosthetic rehabilitation. Thanks to bone grafts, aimed to increase the alveolar crest volume both vertically and horizontally, nowadays it is possible to use osseointegrated implants even when a proper bone volume is missing. As the studies performed on bone physiology suggest that the integration of a bone graft in the receiving site takes place in a shorter period than the one supposed in the past, this pilot study aimed to evaluate the effectiveness of this kind of treatment. In this article a case report is presented: a 33-year old patient, missing both upper central incisors due to a trauma, was treated with a bone autograft harvested from the chin to correct the alveolar ridge defect. After the bone block harvesting, the block was fractured and adapted and fixed in the receiving site with synthesis screws. The remaining gaps were filled with heterologous bone fragments (OsteoBiol® Gen-Os®, Tecnos®, Giaveno, Italy). Then, the site was covered with a membrane and closed with sutures.

### CONCLUSIONS

The healing occurred without complications and after 2 months the CT-Dentascan showed that bone tissue was enough for the placement of two implants. At the 1 year follow-up, the patient did not show implant mobility, nor peri-implant soft tissue infections. The x-ray examination revealed that the marginal bone level was preserved, without any signs of radiolucency.

### HORIZONTAL AUGMENTATION

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