IMMEDIATE LOADING WITH TILTED **IMPLANTS AND COMPUTER GUIDED SURGERY:** ONE YEAR FOLLOW-UP CASE REPORT

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INTRODUCTION

Often in clinical practice the anatomical conditions do not allow the ideal implants insertion concerning the number, position and diameter in order to achieve a good final prosthetic result.

These critical situations can be solved by means of preprosthetic surgery, in example the sinus lift in vertical bone defects in the

the sinus int in vertical bone defects in the posterior upper jaw. However, the analysis of the recent Literatu-re leads us to consider, as alternative highly predictable, the use of short and tilted im-plants, always through a careful preliminary evaluation of the individual case.

MATERIALS AND METHODS

During June 2009, a 56 years-old female patient came to our observation in healthy

physical conditions.

During anamnesis the patient reported some functional and psychological some functional and psychological problems related to the frequent fixed prosthesis decementation in region 2.2, 2.3,2.4; furthermore the patient didn't accept the removable provisional prosthesis as therapeutic solution.

The clinical evaluation and CT DentaScan (Dicom format) examination channel the

(Dicom format) examination showed the unrecoverable residual roots (2.2 and 2.3) furthermore a reduced bone quantity in vertical dimension for the sinus presence was evident. Through the Facilitate software (Materialise,

Belgium) we planned the insertion of tilted and short implants in order to use the maximum bone availability and to obtain the adequate primary stability for two mesial implants for an immediate not functional loading.

Through a computerized planning and a plaster model we realized a resin surgical guide with dental support in order to insert 4 fixtures (4x13, 4x11, 4x6, 4x9 mm - Astra tech, Sweden) respectively in positions 2.2, 2.4, 2.5 e 2.7.

The surgery was performed by flapless technique for the 3 mesial implants insertion and by a full-thickness flap elevation for a correct implant placement

elevation for a correct implant placement in region 2.2 preserving the marginal bone in the post-extractive socket.

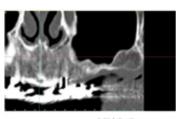
After the implants insertion in 2.2 and 2.4 regions Cresco abutments (Astra Tech, Sweden) were immediately inserted and the impression was taken. After 24 hours the provisional prosthesis was delivered in this region featured by a not functional loading on the implants. on the implants.

After 90 days from the first surgery a final screwed and passivated prosthesis was delivered using the Cresco system.

CONCLUSIONS

The tilted and short implants, a computer guided surgery and the final prosthesis passivation using Cresco system allowed to solve a difficult case reducing to minimum the patient discomfort.

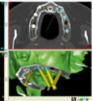
The radiologic and clinical follow-up after one year demonstrated the excellent marginal bone level around the implants, the absence of prosthetic complications and the soft tissues good conditions.







































After 24 hours a pro























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