

## Digital Approach to Immediate Implantology: The Solution for Com-Plex Cases with Bone Atrophy

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Complex cases of bone atrophy of the jaws are difficult to treat for any Implantologist. Lack of residual bone and the difficulty of getting new bone live and stable over time is a problem for the dentist. Bone regeneration techniques are long, invasive, and with low successful success rates in short and especially long-term. Computer-assisted Implantology is a valuable help as it allows sub-millimeter accuracy to maximize the residual bone of the patient. We speak of the inter foramina area of the jaw, the sects and walls of the maxillary sinus, the Pterigoid area, etc. The three-dimensional analysis of the amount of residual alveolar and basal bone obtained from CBCT examination and digital navigation techniques allow us to locate all the little bone available. In addition to this fundamental aspect, it is also possible to have a virtual planning of the intervention keeping in mind the position of future prosthetic teeth. Navigation software allows you to locate the inclination length and position of the implant using the maximum bone and keeping in mind the prosthetic emergency profile. The virtual project can be faithfully reported to the patient on the day of surgery through a stereolithographic surgical guide. This guide, if the steps are correctly performed, allows to position the implant in the patient's mouth exactly in the residual bone.

Getting that same position by working with a free hand would not be possible for the same surgeon. Furthermore C.A.I. allows these interventions to be minimally invasive quick and very well accepted by the patients. Almost always it is possible to load the fixtures immediately, allowing the immediate function of the prosthesis.

In this report, the author, who uses these methods since 2000, will exhibit atrophic cases of partial and total jaw with immediate loading of implants successfully treated with digital implantology. 15-year follow-up cases will also be shown.

Show the surgeon and prosthetist how complex cases of atrophies of the jaw can be solved using Computer Aided Implantology. C.A.I. : The simple solution for complex cases. Show clinical daily work of 15 with real clinical cases of unselected patients

### Biography:

Dr. Palumbo Alessandro was among the first in the world, thanks to the University of Louvain Belgium, to clinically use the computer-assisted Implantology technique on his private patients. He loves innovations and minimal invasiveness for the patient's ultimate well-being. He is one of the founders of the CAI Academy and has been tutor and speaker in courses and congresses in Italy and abroad. His first Dubai lesson on the subject was in 2015. Mentor of the CAI Academy of the Implant Academy and Mentor of the Nobel Biocare Program Free Professionals loving innovations in Pescara Italy.