

ESACROM RESEARCH AND DEVELOPMENT CENTER

PRESENTS

**ES007W1T,
PRECISION, SAFETY and VERSATILITY
IN ONLY ONE TIP**

By Prof. Ugo Covani



INTRODUCTION

Piezoelectric technology allows the execution of effective, safe, predictable clinical procedures, in line with a widely recognized optimal tissue healing response. The choice of an insert of adequate shape and surface characteristics is an essential step in the pursuit of these objectives.

Thanks to the collaboration with Prof. Ugo Covani was created the insert ES007W1T, one of the latest Esacrom products, with a high cutting capacity. The serrated profile and the thickness value of only 0.3 mm ensure an excellent grip on the bone tissue even in conditions of crestal gauge, significantly increase the efficiency in terms of cutting performance and ability to act on surfaces not flat.

During the operational phases swinging movements (pitch-gondolino) and, in a less marked way, those of up-down, are favored and supported by the semicircular profile that characterizes the geometry of the active part of the insert. The result is a particularly versatile tip that finds its directions for use in a wide range of clinical situations.

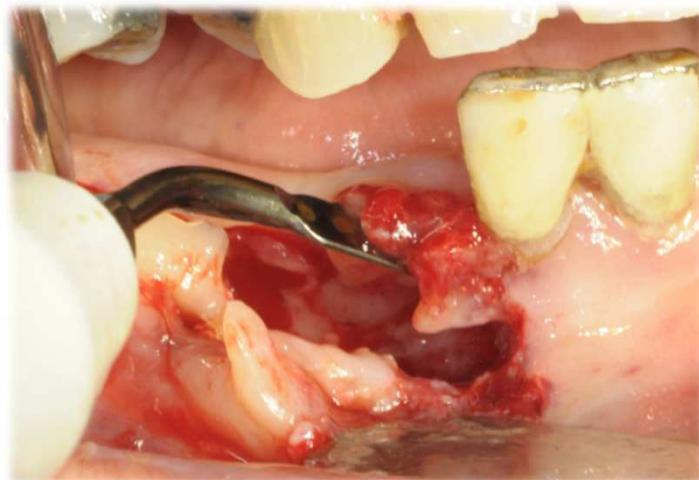
USE

- **OSTEONECROSI FROM BISOPHONATES**
- **EXTRACTIVE THERAPY INCLUDED**
- **SPLIT CREST**
- **SINUS**

We want to thank Dr. Domenico Nicola Mucciacito for the scientific cooperation.

OSTEONECROSIS FROM BISOPHONATES

Osteonecrosis by bifosfonates are clinical conditions characterized by exposure in the oral cavity of maxillary and/or mandibular cortical bone linked to the intake of a particular category of drugs called bifosfonates administered mainly for problems of oncological nature. In the initial lesions the "debridment" can be realized with the aid of ultrasonic technology in order to remove the layer of superficial necrotic tissue, to improve the conditions of tissue oxygenation (cavitation effect) and act in a targeted antibacterial sense (selective action on gram-negative germs). In the case of larger lesions it is necessary that the surgical action is more radical: it is necessary not only to remove the area of necrosis but to extend in apparently healthy tissue with the knowledge that even regions not clinically exposed are, actually, involved in the pathological process. The insert ES007W1T is of great help in the execution of such interventions because it allows to work in safety near "noble" structures, to execute the cut with a reduced traumatism going, for how much possible, in macroscopically not altered fabric and, presumably, well sprayed. In this way it is possible to assure the patient, already tried by the basic pathology, a minimum intraoperative discomfort and a reduction of the morbidity during the period of healing.

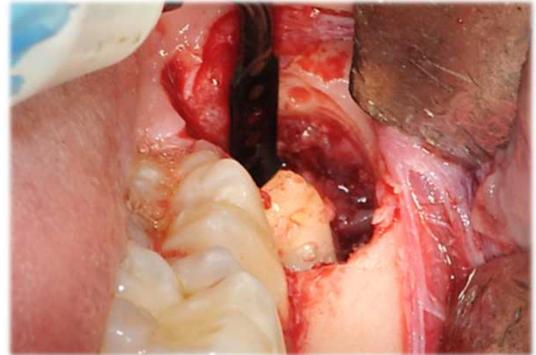


EXTRACTIVE THERAPY INCLUDED

The extractive therapy of the dental elements included in general and of the eighths in particular, recognizes in the piezoelectric technology an instrument of great utility that, in combination with the traditional instrumentation, allows to perform the surgical operation in all safety and with a very limited operating time. With the insert ES007W1T you can run

with great precision periradicular osteotomies in order to facilitate subsequent manoeuvres of The European Parliament and the Council great safety especially in the vicinity the lower vascular-nervous bundle; moreover, thanks to its high performances cutting tip ES007W1T allows you to perform in rather small times and spaces the completion tooth section especially if

the same is close to the lingual cortical without the need to raise a limb in order to protect the nerve of the same name. Finally, it is also useful in the removal of fractured roots thanks to easier control and better visualization of the operating field minimizing the risk of accidental penetration in the sub-mandibular loggia.



SPLIT CREST

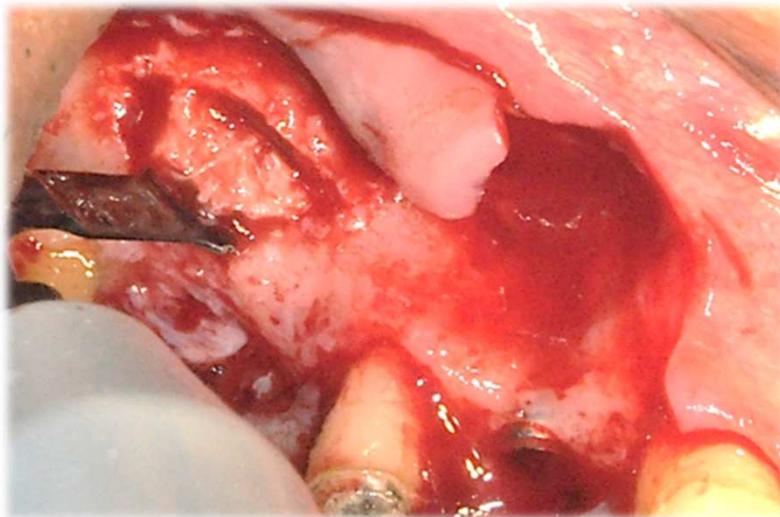
The crestal enlargement techniques created to implement the vestibule-palatal/lingual diameter and allow a correct implant insertion recognize ultrasonic technology as a valuable tool to simplify the technical-operational protocol. In particular, both sagittal and vertical osteotomy (where provided) is conservative and at the same time rapid micrometric in order to make rehabilitative treatment less invasive than other bone volume enhancement techniques (block grafts, GBR). In general, the use of the ES007W1T insert allows, compared to other inserts used for the same purpose, the passage from the main osteotomy (mesio-distale) to secondary ones in an easy and continuous way without the need to substantially change the orientation of the handpiece: This is made possible by the arrangement of sharp teeth along a circle arc that allows the operation of both the end and the side parts of the insert. The fast and precise execution of the bone cut ensures a reduction of the timing and an improvement of the intraoperative and post-operative discomfort.

As a result, enlargement protocols using the ES007W1T insert are increasingly predictable and better accepted by patients.

SINUS

The "maxillary sinus rise" is an intervention that serves to allow fixed prosthetic rehabilitation in the posterior sectors of the upper maxilla. It consists in the creation of a breast access window that can be performed either by side or by crest. The need to prevent the perforation of the sinus membrane recognizes in piezoelectric technology an indispensable means to make this procedure more predictable.

The antrostomy design can be of different shape: usually ovoid shapes are preferred to elliptical and/or rectangular shapes that lower the risk of membrane injury. However, the case in question will suggest the most appropriate design. The insert ES007W1T, thanks to its particular shape able to support the movement of the pitch of the handpiece, is able to ensure a particularly effective cutting action: the result is the realization, in a very short time, a hatch to facilitate the subsequent steps of the intervention. Precise and regular osteotomies performed safely and in a short time are emblematic aspects of piezoelectric technology enhanced by the use of the ES007W1T tip.



ES007W1T, DETAILS AND PARAMETERS



Punta/ lama a forma di mezza luna a 10 denti
per osteotomie ad alta efficienza.
SEGHETTATA.

U	45	Sp: 0,3 mm
V	80	Lo: 12 mm
P	100	La: 14 mm
MAX POWER	70	PM: 4-5-6-7-8-9-10-11-12-13 mm

U: Potenza consigliata

V: Vibrazione consigliata

P: Portata pompa consigliata

MAX POWER: Potenza massima a cui è possibile utilizzare l'inserto

PROF. UGO COVANI



Prof. Ugo Covani has a degree in Medicine and Surgery and has a specialization in Surgery and Stomatology.

For over forty years he has been practising with a practice limited to surgical pathology, first as a hospital doctor and then as a university professor having held, in various capacities during his career, teaching positions at the University of Genoa, Milan and Pisa, where he ended his career as a full professor. Author of 5 books and as many book chapters, he has printed more than 300 scientific articles, more than half of which in international magazines.

National and international speaker, he gave hundreds of lectures on five continents.

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