

**DISCOVER OUR
ULTRASONIC WORLD!**

**ESACROM R&D DEPT.
PRESENTS
“Atraumatic Piezoelectric Impacted
teeth extraction”**

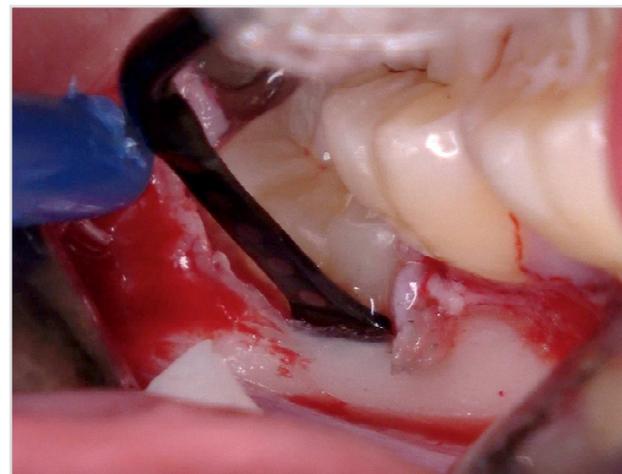
By Prof. Angelo Cardarelli

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INTRODUCTION

The avulsion of the included or semi-included dental elements is one of the most frequent clinical procedures performed by the odontostomatological surgeon. This practice can be relatively simple or extremely difficult in relation to many variables related to the element to be extracted such as location, anatomy of the dental and root crown, depth and type of inclusion, etc. While dental avulsion can be considered a routine dental intervention, the extraction of included dental elements requires considerable technical preparation, an accurate knowledge of all the noble anatomical structures and a matured surgical experience. It is essential to carry out a correct treatment planning that allows, on the one hand, to minimize the risk of post-surgical complications (pain, edema, trismus, alveolitis ...) and, on the other, to be able to manage these last correctly, always with the lowest biological cost for the patient. In recent years, odontostomatological surgery has been strongly affected by the technological innovations introduced in this area. In particular, the use of ultrasound applied to surgery has changed some of the most frequent clinical procedures, such as the extraction of included third molars, thus spreading an innovative concept throughout dentistry: piezoelectric surgery or piezosurgery. The maximum efficiency of this tool is obtained by using it at maximum power and with minimum operator pressure, reducing the risk of overheating and damage to soft structures.

Prof. Angelo Cardarelli



Graduated with honors in Dentistry and Dental Prosthetics at the University of L'Aquila in 2007. Specialized in Odontostomatological Surgery at the "Sapienza" University of Rome in 2010. He is Adjunct Professor and Tutor at the Vita-Salute San University Raffaele of Milan. He is Scientific Consultant of the Dental Clinic at the Operating Unit of Dentistry of IRCCS San Raffaele in Milan (Dir. Prof. E. Gherlone). He works as a freelance professional in Milan and Isernia, where he mainly deals with implant prosthesis and oral surgery. Author of several publications, Speaker at national and international congresses and courses on Implantology and Oral Surgery. Member of the San Raffaele Implant Research Cultural Association. Member of the International Extractive Academy of California USA. Author of the book "Piezoelectric Surgery of Impacted Teeth" EDRA 2020 Editions together with Dr. Arun K Garg, professor at the University of Miami.

DEDICATED TIPS AND PARAMETERS

Code	Code	Code
ES007T	ES007WT	ES07N3ST

U	50	50	45
V	80	80	80
P	100	100	100
MAX POWER	70	70	50

Code	Code	Code
ES009T	ES009NT	ES012ET

U	45	45	20
V	80	80	80
P	100	100	100
MAX POWER	50	50	25

U: Suggested power
V: Suggested vibra
P: Suggested water pump
MAX POWER: Maximum power

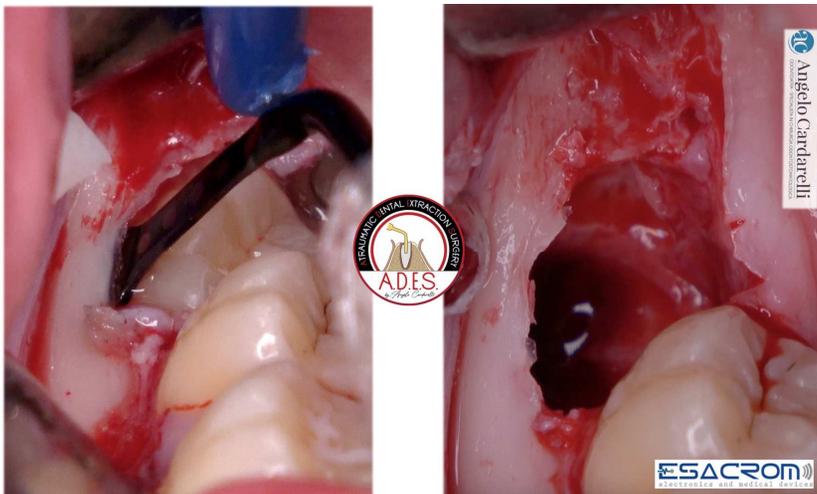
OSTEOTOMY INCLUDED TEETH

Ultrasounds allow a micrometric and very precise osteotomy in all directions, recording minimal bone loss. This feature of cutting with ultrasonic instruments is very advantageous when performing micro-osteotomies to allow mobilization of the bone wall to be expanded. The handpiece of the current ultrasonic instrumentation is very handy and the inserts allow access to the operating field in a much easier way than traditional instruments. During the cutting action, a sound is produced that can be used as acoustic feedback to adjust the force to be used.



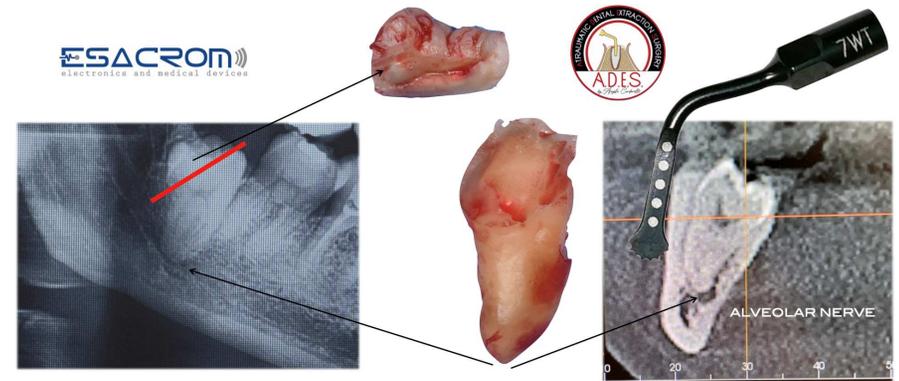
- Micrometric and precise cut
- Promotes haemostasis
- Removes debris from the surgical field

OSTEOTOMY INCLUDED TEETH



ES007T

Pericoronar micrometric osteotomies of impacted wisdom teeth.



Angelo Cardarelli
DENTIST - SPECIALIST IN CHIRURGIA ODONTOLOGICA

PiezoEXTRACTION

clinica
cardarelli
ACADEMY

ES007WT

Selective osteotomy with preservation of the inferior alveolar nerve.



ES007T

Selective osteotomy with preservation of the mental nerve.

OSTEOTOMY INCLUDED TEETH

ODONTOTOMY

Piezo Section

REMOVED



ac Angelo Cardarelli
ODONTOLOGIA - SPECIALISTA IN CHIRURGIA ODONTOSTOMATOLOGICA

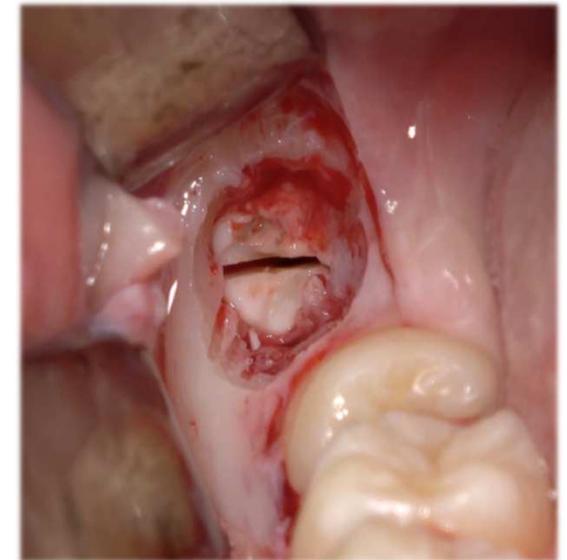
RECOVERED

ES007T

Osteotomy (bone block section) for extraction of an impacted wisdom tooth and orthodontic recovery of the second molar.



ES007WT



Tooth cutting by means of piezoelectric inserts ES009NT and ES007WT.

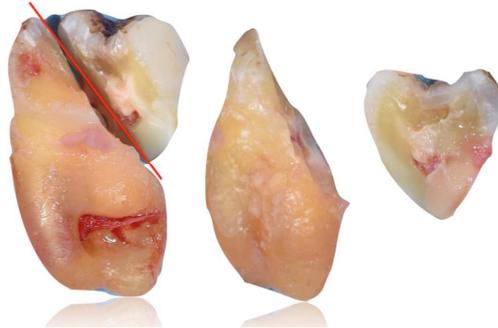


ES07N3ST

Upper wisdom tooth avulsion osteotomy.



ODONTOTOMY



Following the protocol.....  Angelo Cardarelli

Tooth cutting by piezoelectric insert ES009NT.

Unlike implantology, a branch now widely spread among dentists, extractive surgery still represents a "taboo" for many colleagues who, while practicing implant surgery on a daily basis, prefer to leave the avulsions often to maxillofacial surgeons or oral surgeons, considering it an intervention of greater complexity and often a source of anxiety and stress for the operator. Therefore, since I have been dealing with simple and complex piezoelectric extractive surgery for about 10 years, I felt the need to develop a repeatable and predictable protocol in order to reduce the invasiveness and traumaticity of such procedures.

ANKYLOTIC TEETH



ES009T

Syndesmotomy of ankylotic lower molar with preservation of the buccal cortex.



Syndesmotomy of ankylotic upper canine with ES012ET insert.