

Echolaser presentation

Medical Center Rogaška

Rogaška | January 19 – 20, 2018



From 13th to 14th
of April 2018

In Francavilla al Mare
(CH), Italy, at Centro
Congressi Hotel Villa
Maria

**VIII Giornate
Endocrinologiche
Abruzzesi – GEA**

From 22nd to 25th
of April 2018

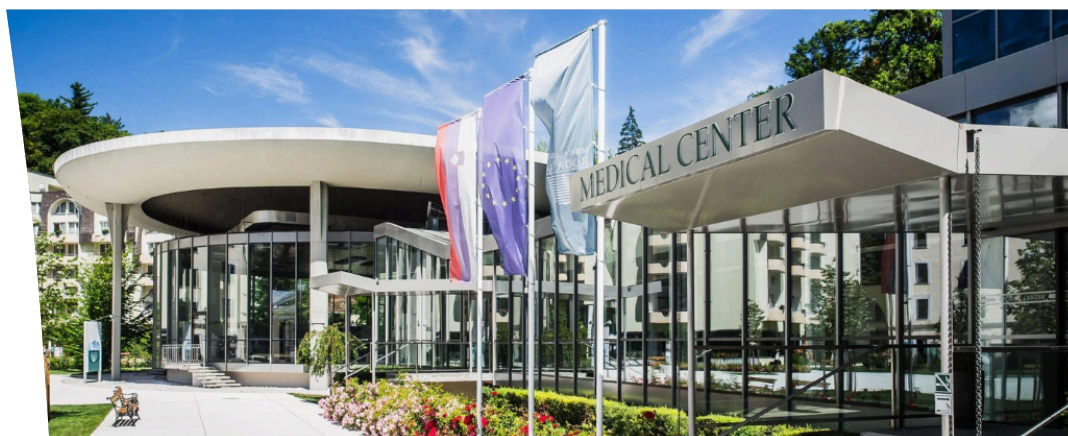
In Vienna, Austria, at Reed
Messe Wien Congress
Center

**European Conference
on Interventional
Oncology – ECIO 2018**

From 16th to 17th of
April 2018

In Albano Laziale
(Rome), Italy, at Regina
Apostolorum Hospital

**International
School of Thyroid
Ultrasonography and
Ultrasound Assisted
Procedures**



Rogaška Medical Centre is situated in the only Slovenian spa which is focused on disease prevention, continued treatment and rehabilitation of patients with diseases of the digestive system. In January 2018 the Centre approached the field of the Micro-invasive Thermal Ablation Treatments with the installation of the first **EchoLaser System** from **Elesta** in Slovenia.

The event, organized in collaboration with Prof. Dr. Musa T. Abidov – Professor of Medicine at the Russian Academy of Natural Sciences in Moscow, involved some of the most experienced Italian clinicians, who presented the clinical treatments available with EchoLaser:

ModiLite Treatment for lesions of the neck, such as benign thyroid nodules and metastatic lymph nodes – Presented by Dr. Giovanni Gambelunghe and Prof. Pierpaolo De Feo from Delta Implants Private Clinic in Perugia.

SoracteLite Treatment for urinary system disorders like Benign Prostatic Hyperplasia (BPH), producing a progressive reduction in the volume of the prostatic lobes and subsequent disappearance of the symptoms. SoracteLite is the first and only laser treatment for BPH through a trans-perineal approach (reducing complications of traditional trans-urethral approach) – Presented by Dr. Gianluigi Patelli and Dr. Giovanni Aurelio Paganelli from Pesenti Fenaroli Hospital in Alzano Lombardo

PBLite Treatment for primary and secondary malignant liver cancers by percutaneous insertion of optical fibres – Presented by Dr. Giovan Giuseppe Di Costanzo from Cardarelli Hospital in Naples

The event aroused great interest with the participation of more than 60 clinicians from Eastern Europe and Russia.



Trattamenti percutanei nella patologia tiroidea: stato dell'arte e prospettive future

Milano Centro Congressi Stelline
February 2, 2018

First Italian Conference on Thyroid Minimally Invasive Treatments was held in Milan, Italy, on February 2nd 2018.

With more than 130 multidisciplinary participants and 20 faculty members with specific expertise in the field of thyroid disease, it was the first and largest meeting fully dedicated to an appraisal of the role of minimally invasive treatments for thyroid lesions. During the meeting, the Italian Research Group for Thyroid Minimally Invasive Treatment (IRGTMIT) was formed. The IRGT-MIT is aimed at creating a fellowship among all healthcare professionals in Italy that are involved in the treatment of thyroid diseases, with particular focus to those interested in promoting research and clinical practice on thyroid minimally invasive treatments.



Elesta took part to the conference presenting EchoLaser through practical sessions during which participants experienced the mode of action of the system.



Regarding the clinical aspect discussed during the conference you can reach more information in the following article:

Proceedings of the first Italian conference on thyroid minimally invasive treatments and foundation of the Italian research group for thyroid minimally invasive procedures.

Mauri G, Pacella CM, Papini E, Sconfienza LM, Solbiati L.
Int J Hyperthermia. 2018 Mar 1;1-3.

You can reach more information on the conference at the following link:

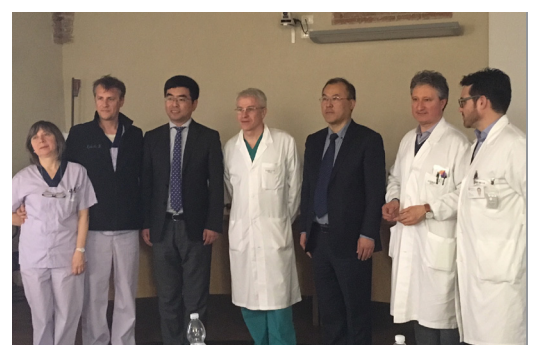
<http://www.termoablazionetiroide.it/do-indexd>

Chinese Delegation visits Dr. Gianluigi Patelli, our KOL on SoracteLite Treatment

Alzano Lombardo | March 13, 2018

Seven Chinese Urologists were sent in Italy by Esaote Medical Equipment Co. (China) to keep more information on SoracteLite Treatment. Elesta organized for us a 2 hour visit in the Key Opinion Leader Centre, "Pesenti Fenaroli Hospital" in Alzano Lombardo, for a meeting with the expert physicians of SoracteLite treatment: Dr. Gianluigi Patelli, Director of Radiology Department of ASST Bergamo Est, and Dr. Aurelio Paganelli, Urologist of ASST Bergamo Est. Dr. Patelli and Dr. Paganelli explained to them the characteristics of laser treatment on BPH, some case studies and the results on the population of around 70 patients treated to date.

Chinese doctors showed a strong interest in this micro invasive method and would like to implement SoracteLite in their Hospitals.



"EchoLaser day"

**At WOJEWODZKI SZPITAL
SPECJALISTYCZNY
WE WROCLAWIU
OSRODEK BADAWCZO-
ROZWOJOWY**

Wroclaw | February 19, 2018

On February 19th EchoLaser System was presented in Wroclaw hospital WOJEWODZKI SZPITAL SPECJALISTYCZNY during the "EchoLaser Day". The event consisted of theoretical lectures followed by real case presentations and real life operations. The operations were followed with the direct camera feed from operation room to the presentation room.



Dr. Mauri, Dr. Patelli and Dr. Di Costanzo were the invited operators and lecturers to the event each presenting a particular application. Dr. Mauri presented the technology in general and performed and presented the ModiLite application, Dr. Di Costanzo performed and presented the PBLite application and Dr. Patelli performed and presented the SoracteLite application. All operators were assisted by Dr. Bolis, Chief Technician / Nurse Coordinator in "Persenti Fenaroli" Hospital in Alzano Lombardo, Italy.

The event arouses great interest with 80 attendees of different clinical branches, with active debate following the applications and the presentations.

The event was also followed with great interest among the media. During the event there were several TV stations, radio stations and printed and on-line media reporters present. During the week over 130 publications/mentioning of EchoLaser day were published by the media. There were 57 mentioning at the radio stations, 36 at the TV stations (national and local) and over 40 in the printed and on-line media.



"Wrocław's doctors were the first in Poland to test a new method of cancer removal. Almost non-invasively we can get to hard to reach places. EchoLaser is a very safe method without the risk of complications" praises prof. Wojciech Witkiewicz, director of the Provincial Specialist Hospital in Wrocław "Without opening the patient, on local anesthesia and in a few minutes - this is how an EchoLaser works, a modern method of removing cancers that doctors from the Provincial Specialist Hospital in Wrocław tested."

Elesta Distributors and Doctors Training on Echolaser

Calenzano, Alzano Lombardo | March 20-22, 2018

From 20 to 22 March 2018, Elesta organized a course on EchoLaser and its applications for distributors and doctors. In the first day the theoretical part was done from Elesta staff and the second and third days the practical part (participation to the live session) and presentations by expert physicians was done in the "Persenti Fenaroli Hospital" in Alzano Lombardo.

In details, doctors and distributors could attend live sessions on ModiLite and SoracteLite procedures. Also Dr. Giovanni Mauri, radiologist of IEO in Milan, participated as a speaker and he talked about an overview of the thermal ablation techniques and on the state of the art on laser treatment on benign and malignant lesions in the neck.

The participants were doctors from India and distributors from Egypt, Taiwan and Thailandia. Their feedbacks on the explained arguments and live session were very good. Many questions were done to us and to the doctors and these were the evidence in their interest in Echolaser product and its applications.

We would like to thanks Christophe Barbagelata, area manager of Asia Pacific Countries, for his support in the collection of participants and during the course.

We would like to thanks Dr. Gianluigi Patelli for his hospitality and availability to perform EchoLaser treatments which were very useful for Doctors training.

We are planning another course in July 2018 to allow Doctors in Asia Pacific to be trained on Echolaser applications.



European Congress of Radiology 2018

Vienna | February 28 – March 4, 2018

ECR is one of the largest medical meetings in Europe and the second largest radiological meeting in the world, with attendees spanning all areas of the radiology arena including radiology professionals, radiographers, physicists.

The congress took place at the Austria Center Vienna and Elesta was present with the booth and an "Educational Room" in which "Hands-on" and "Meet the Expert" sessions were provided every day of congress with the support of our expert physicians Giovanni Mauri (Interventional Radiologist from IEO, Milan) and Gianluigi Patelli (Director of the Interventional Radiology Department of Pesenti Fenaroli Hospital, Alzano Lombardo).



Participants showed great interest for both Hands-on and Meet the Expert sessions during which they had the chance to attend presentations about EchoLaser Clinical Applications and to better understand the system characteristics and performances.



Meet the Expert sessions



Hands-on sessions



European Congress of Radiology 2018

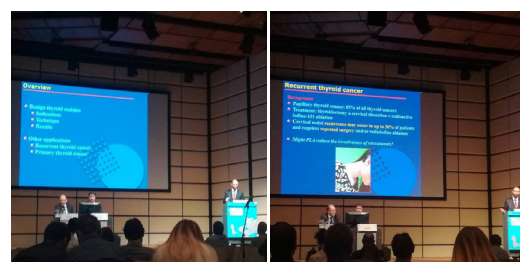
Vienna | February 28 – March 4, 2018

Dr. Mauri and Dr. Patelli presented also two scientific papers on their experience with EchoLaser during the Congress, on Saturday and Sunday as reported below:

Dr. Mauri - Ultrasound-guided interventional procedures: new techniques and applications

Abstract (Reference A-826 in ECR 2018 Book of Abstracts)

Ultrasound-guided interventional procedures in thyroid disease have shown great expansion and are more and more widely applied in the clinical practice in a larger spectrum of applications. On the one hand, ultrasound-guided fine needle aspiration has become the standard practice for diagnosing the nature of thyroid nodules, which are increasingly detected in the population. On the other hand, the development of dedicated technique such as laser ablation or radiofrequency ablation with specific devices has expanded the role of interventional ultrasound in the treatment of both benign and malignant thyroid disease. Ultrasound-guided ablation has achieved a more important role in the everyday treatment of benign nodules (even hyperfunctioning ones), representing a minimally invasive, safe and effective treatment strategy. Moreover, the application of thermal ablations to malignant disease, both primary and recurrent, seems to represent a promising strategy in order to reduce the invasiveness of surgical treatment in such difficult anatomical region. In this presentation, consolidated and new applications of interventional procedures in the thyroid will be presented and discussed, with particular focus on new application of thermal ablations in the setting of both benign and malignant disease.



Learning Objectives

1. To learn about new results and application of ultrasound-guided interventional procedures: thyroid malignancy FNA, thyroid nodule ablation.
2. To understand consolidated and new indications to ultrasound-guided interventional procedures: FNA, RFA.
3. To appreciate accuracy of ultrasound-guided interventional procedures from consolidated to new applications: analysis of data from personal experiences and literature series comparison and discussion.
4. To become familiar with the new techniques of ultrasound guidance and with the new diagnostic and therapeutic indications for ultrasound-guided interventional procedures: CEUS imaging, fusion imaging, elastosonographic imaging for thyroid malignancy FNA.

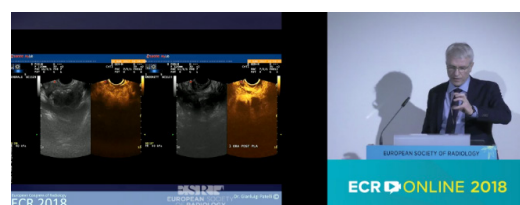
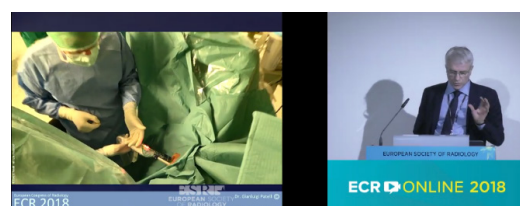
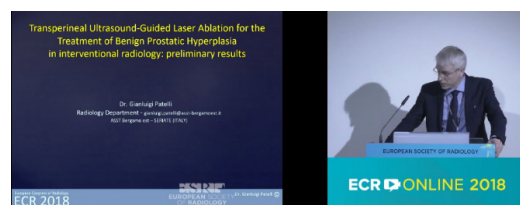
Dr. Patelli - Transperineal ultrasound-guided laser ablation for the treatment of benign prostatic hyperplasia in interventional radiology: preliminary results

Abstract (Reference B-1545 in ECR 2018 Book of Abstracts)

Purpose: To assess the safety and efficacy of ultrasound-guided (US-g) transperineal laser ablation (TPLA) in treating benign prostatic hyperplasia (BPH).
Methods and Materials: fifty-five patients (age 72.6 ± 10.4 years, range 58-93) suffering from obstructive syndrome secondary to BPH underwent TPLA using continuous wave (CW) diode laser source operating at 1064 nm (Echolaser Soractel Lite, Elesta s.r.l., Calenzano (FI), Italy). Under US-g, depending on basal volume, up to two 21 G introducer needles for each lobe were inserted via transperineal approach. Each treatment was performed with a fixed power protocol (3W) changing the illumination time case by case according to the prostate volume. The efficacy of the treatment was evaluated considering the changes of International Prostate Symptoms Score (IPSS), Quality of Life (QoL), post-void residual (PVR), peak urinary flow rate (Qmax) and prostate volume. the mean hospital stay and mean catheterization time were measured.

Results: In all patients, the treatment was successful without intraoperative and perioperative complications. The mean operation time was 43.3 ± 8.7 min, mean ablation time 15.9 ± 3.9 min, mean energy deployed $11,470.0 \pm 3,570.6$ J, mean hospital stay 1.5 ± 0.4 days and mean catheterization time after the procedure 14.4 ± 7.7 days. The mean follow-up was 11.5 months (range 4-36). IPSS improved from 22.2 to 7.7 ($P < 0.001$), QoL from 4.5 to 1 ($P < 0.001$), Qmax from 7.6 to 13.3 ml/s ($P = 0.001$), PVR from 148.0 to 58.2 ml ($P < 0.001$) and mean prostate volume from 80.6 to 52.6 ml ($P < 0.001$). No major complications occurred.

Conclusion: TPLA is a novel option to treat patients affected by BPH. The study demonstrated that this approach was efficacious and safe with significant and durable results.



Thanks to the extraordinary support from our Italian KOLs and distributors we were able to collect more than 40 leads, having the chance to get in touch with important KOLs in different radiology fields. ECR 2018 was a great experience for the whole Elesta team and we hope we will be able to organize it again in 2019, with even better results!

Upcoming Events

From 13th to 14th of April 2018 Elesta will be present as expositor (Booth Nr. 1) at **"VIII Giornate Endocrinologiche Abruzzesi – GEA"**, a biennial event which has seen its first edition in 2009 and has the aim to gather Italian and international KOLs of Endocrinology and Metabolic Diseases Clinical branches.

From 16th to 17th April the 2018 first edition of **International School of Thyroid Ultrasonography and Ultrasound assisted procedure** will take place at Regina Apostolorum Hospital, Albano Laziale. The Course will consist of a theoretical and practise part on laser thermal ablation on neck lesions; actually 10 doctors from many part of the World have confirmed their presence during the Course.

From 22nd to 25th of April 2018 Elesta will be present as expositor (Booth Nr. 16) at European Conference on Interventional Oncology – **ECIO 2018**. On Tuesday, April 24; 10:30-12:00 the EchoLaser system will be presented by Dr. Giovanni Mauri (IEO, Milan) during the Hands-On Device Training organized by Elesta. On Tuesday April 24th, 17:00-18:30 in the Auditorium 2 Room, Dr. Patelli (Pesenti Fenaroli Ospital, Alzano Lombardo) will have an oral presentation on "Transperineal ultrasound-guided laser ablation for the treatment of benign prostatic hyperplasia: preliminary results".

New publications on Echolaser Therapy

Benign Thyroid Nodules

A single session of laser ablation for toxic thyroid nodules: three-year follow-up results.

Gambelunghe G, Stefanetti E, Colella R, Monacelli M, Avenia N, De Feo P.

Int J Hyperthermia. 2018 Feb 22:1-5.

Quality of Life in Patients Treated with Percutaneous Laser Ablation for Non-Functioning Benign Thyroid Nodules: A Prospective Single-Center Study

Oddo S, Felix E, Mussap M, Giusti M.

Korean J Radiol 2018;19(1):175-184

Malignant Thyroid Tumour

Percutaneous Laser Ablation of Unifocal Papillary Thyroid Microcarcinoma: Utility of Conventional Ultrasound and Contrast-Enhanced Ultrasound in Assessing Local Therapeutic Response.

Zhang L, Zhou W, Zhan W, Peng Y, Jiang S, Xu S.

World J Surg. 2018 Feb 27

Endoscopic Approach

Endoscopic ultrasonography (EUS)-guided laser ablation (LA) of adrenal metastasis from pancreatic adenocarcinoma.

Jiang T, Chai W.

Lasers Med Sci. 2018 Jan 24.

EUS dating with laser ablation against the caudate lobe or left liver tumors: a win-win proposition?

Jiang T, Tian G, Bao H, Chen F, Deng Z, Li J, Chai W.

Cancer Biol Ther. 2018 Mar 4;19(3):145-152.

Pancreas

Feasibility of EUS-guided Nd:YAG laser ablation of unresectable pancreatic adenocarcinoma.

Di Matteo FM, Saccomandi P, Martino M, Pandolfi M, Pizzicannella M, Balassone V, Schena E, Pacella CM, Silvestri S, Costamagna G.

Gastrointest Endosc. 2018 Feb 13.

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