



PRESENTED AS A WORLDWIDE PREMIERE THE LASER MADE IN ITALY THAT CURES THE SEVERE DESABILITIES OF PEOPLE WHO WAKE UP FROM A COMA

Quanta System, Italian company among the first in the laser technology field, announces today the donation, through its non-profit organization "Quanta Patrons of the Health", of a last generation laser to the rehabilitation center Villa Beretta. A technology that, for the first time in the world, is able to cure with the precision and effectiveness of the laser the severe disabilities of patients waking up from a coma which causes para-articular ossification and severe spasticity .

A hope to return to life and to walk on their own feet to those who for years have been in a coma due to accidents or serious illness. All this thanks to a futuristic **laser technology** at the service of **patient care** and supporting the medical staff in order to give a contribution to medical science and to boost the development of new **therapeutic solutions**. This is the aim with which **Quanta System** - Italian company El.En. Group (Star segment of the Italian Stock Exchange - ELN.MI) based in Solbiate Olona (VA), among the world's leading producers of medical, industrial and scientific lasers - announced the donation, through the newly formed non-profit organization "Quanta Patrons of the Health" to the **Rehabilitation Centre Villa Beretta** of Costa Masnaga (LC), of a last generation Tullio laser, the Cyber TM 200, which provides for the first, innovative treatments to patients with severe spasticity or para-articular ossifications post-coma (POA).

"The donation - says **Paolo Salvadeo, CEO of Quanta System** - will be made possible thanks to the fundraising of our non-profit organization '**Quanta Patrons of the Health**', that is 'Quanta protectors of Health', which confirms the **social commitment of our company**, believing that the task at hand is to take care of people, considered as **masterpieces to be protected** and treated with care and scruple".

Today Villa Beretta doctors, to treat limbs twisted by heavy spasticity (clubfoot or deforming contractures of the limbs) severe or diminish the motor signal for muscle contraction, making the limb flaccid (total reduction) or reducing its contraction (reduction partial). **The reduction or total removal of the motor nerve is carried out with conventional scalpel. The precision** in this discipline **is fundamental**, and is closely linked to the experience of the surgeon. A second solution, which is adopted, is the reduction of the nerve signal through the dispenser (implanted) of botulinum solution. This methodology, however, contemplates periodic surgical access to change the pump and the dispenser. The laser instead introduces numerous advantages (precise, selective, safe, mini-invasive), enhancing the patient condition predisposing them to a best use of the exoskeleton, an invention that will allow them to walk and patients with severe spinal cord injury will be able to star moving.

The innovative use of the Tullio laser is the second goal, once again for the first in the world, with a wavelength of about 2 microns for the treatment of POA (para-articular ossifications) post-coma. The POA typically formed on the quadriceps femoris, prevent distension of the limb making impossible the wheelchair option, forcing patients to bed in a horizontal position. Currently the POA are reduced by surgical hammer and chisel. The laser contribution will bring significant benefits in the operation of the surgical reduction: more precisely, reducing related bleeding, reducing surgical time and post-operative trauma.

“ We are honoured – says Dott. **Franco Molteni, Director of the Operational Unit Complex of Rehabilitation Medicine of Villa Beretta** - to be the first in the world to experience and benefit from this innovative laser technology with which we can give hope to many people and ensure their physical and mental wellbeing. We are happy that, thanks to this donation, Villa Beretta can therefore continue to be a point of reference in which the best innovations in medical science and technology are functional to give support and care to those who suffer. ”

The attention paid to patient care in terms of social aspects, goes hand in hand with the importance in research through the **creation of an active link between business companies and universities. A central theme of the "Innovation: gift or mission"** Conference of **September 10th** at Villa Beretta, who sees Quanta System at the forefront of a new "**club of innovators.**" For some time the company is the bearer of a message, acting as a link between the market and the basic or applied research universities.

"**The University** - continues Paolo Salvadeo - **should promote better its activities and its projects for the companies and vice versa.** This will prevent the brain drain and keep a whole Italian know-how, creating cross-fertilization and critical mass of knowledge with which challenge or serve, even the giants such as US or Asia.

The donation of the laser to the medical facility Villa Beretta is a new step towards the research, element that **Quanta System** has inherent in its DNA: the company, **is globally recognized as one of the leading companies among the producers of high technology lasers for the surgery field and has always been in the forefront of providing minimally invasive treatments**, reducing the rate of complications, hospital stay and postoperative disorders of patients.

The attention to detail and a focus on real clinical effectiveness allows to use laser technologies to their full potential in surgery, in aesthetic medicine as well as in the **restoration of works of art of inestimable value.** Recently it was, donated to the Vatican City a next-generation infrared laser equipment, Holmium: YAG, called Litho. **For the first time ever 500 works of art of the Vatican Museums will live again thanks to laser Made in Italy so far only used in the medical field for the removal of kidney stones.** A 'bombardment' of pulsed light that acts in a precise and selective way recovering the works and cleaning the masterpieces, 'demolishing' at the same time the organic and inorganic concretions which have settled in the centuries, without the use of micro drills, cutters or chemical solvents, harmful for the works of art, for the environment and for the operators.

Quanta System is an Italian company founded in 1985 based in Solbiate Olona (Va), from 2004 belonging to the international group El.En, and a world leader in the production of lasers for three scientific fields: aesthetic medicine, surgery and art. Three divisions united by one principle: to improve the quality of life of patients and taking care of people. Founded as a spin-off of one of the largest research centers in the field of lasers and optics worldwide, Quanta System has taken the first steps in high energy physics, plasma physics, spectroscopy and light interaction -matter. The first laser for the restoration of works of art were developed in 1994, and since 1997 began the activities in the field of medical lasers for dermatology and aesthetic medicine. In 2008 the company developed its first surgical lasers, which have today significant market share internationally. Trusted partner of healthcare facilities, doctors, institutions and organizations engaged in scientific projects, the activities of Quanta System are also aimed at European and international research programs, in collaboration with prestigious universities and research centers around the world.

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