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## **ARMENIA, THE MADE IN ITALY LASERS ON A MISSION WITH WORLD EXPERTS FROM HARVARD AND MIT (BOSTON) TO TREAT HUNDREDS OF CHILDREN**

***Quanta System's humanitarian mission in Armenia has taken off: the made in Italy laser technology, handed to the universally recognized father of Photomedicine, Rox Anderson (professor at Harvard and MIT in Boston), now plays a crucial role in the treatment of kids suffering from vascular malformations and burn lesions in the pediatric hospital in Yerevan.***

**Treating the children with vascular malformations and burn scars**, laying the foundations for the training of plastic surgeons and dermatologists and **creating a center specialized in laser technology in the Caucasian capital city**. These are the goals to reach with the ambitious humanitarian **mission in Armenia with Quanta System, Italian company world leader in the field of medical laser, being at the forefront of this expedition**. Indeed, the Italian company has **donated to the Arabkir pediatric hospital in Yerevan a fractionated laser unique in the world allowing the treatment of children suffering from vascular malformations and burn scars**. Such prodigious laser **has already been operated in the hospital of the Armenian capital under the guidance of dermatology experts from Massachusetts General Hospital in Boston, led by the world-leading expert Rox Anderson**. This laser system was used for the **treatment of residual scars in children and adolescents caused by the explosions of several balloons blasted in 2012 during the feast of the main political Armenian party. These balloons were filled with hydrogen; unfortunately, this choice resulted in the injury of 144 people**. Furthermore, this futuristic laser device was also used for the treatment of

many young victims of the bomb blown up on a bus in Yerevan in 2015.

**Rox Anderson**, lead researcher at *The Wellman Laboratories for Photomedicine*, professor at Harvard and MIT - *Massachusetts Institute of Technology of Boston*, claims: "Unfortunately, sometimes **the most advanced and innovative health technologies are not made accessible to less wealthy patients**, despite the fact these people are generally those most in need of them. We are strongly determined to change all of that. My team and I are thus grateful to Paolo Salvadeo, CEO of Quanta System, and to Luca Cerri, scientific chief of the company, for being here with us in Armenia, and for **providing the Arabkir hospital permanently with an exceptional laser device for the treatment of children**".

Vascular malformations represent an extremely heterogeneous group of congenital abnormalities of the circulatory system. They are characterized by morphological, structural and/or functional alterations of different type, severity and extension, that can affect vessels of any type (arterial, venous or lymphatic), of any dimension or anatomical region. They represent a problem with great

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impact on medical and social aspects, as they consist in crippling pathologies, developing and emerging already in childhood and adolescence, inducing severe hemodynamic, functional, aesthetic and psychological implications in the patients.

**“Nowadays, laser photoablation and photocoagulation represent a true panacea for vascular malformations** – explains Paolo Salvadeo, CEO of Quanta System – **the technology of our YouLaser MT device is the only one all over the world able to combine the effectiveness of a superficial micro-photoablation with that of a deeper photocoagulation.** According to that, we decided to design a universal laser system able to work with two different wavelengths, 1540 nm and 10600 nm, with beams overlapping both in space and time, in other words being even simultaneous”.

The scar consists of a fibrotic tissue developing to heal and repair a lesion, pathological or traumatic, produced by the proliferation of the derma and epidermis. Unlike normal lesions (abrasion, graze or simple skin lesion), the scar leaves a mark on the skin. That represents a normal event during the healing process in the derma damaged by an injury, disease or surgery. Thanks to the most advanced laser systems, today we can reach stable and permanent results. Interacting with the skin, the emitted laser radiations transform the scarring tissue, both on the surface and in deeper layers, with regeneration effects in the epidermis and derma, providing these tissues with a healthy skin-like appearance.

**Luca Cerri, scientific chief at Quanta System,** further says: **“With this mission, we are again at the forefront in providing help to needy populations in the world.** After other humanitarian missions launched by our company, for instance in Nicaragua, Bolivia and Paraguay, today it’s the time for Armenia, a very warm and inviting country. We are all excited and touched from the gratitude demonstrated by both local practitioners and the

extremely young patients, in particular by the children treated here in Yerevan for severe burn scars”.

*Quanta System is an Italian company founded in 1985 based in Samarate (Va), since 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 a common principle: to improve the quality of patient life and to take 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 took the first steps in high-energy physics, plasma physics, spectroscopy and light-matter interaction. The first lasers for the restoration of artworks were developed in 1994, whereas the activities in the field of medical lasers for dermatology and aesthetic medicine started in 1997. 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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