



Laser Florence

A WINDOW ON THE LASER MEDICINE WORLD

Laser Florence 2000

Laser Florence 2000 Congress presented an high scientific level of presentations.

The principal news regarded the Laser tissue Welding, with Prof. Dix Poppas from New York which shown the state-of the art of this sector and the new clinical application on the vascular tissue, the mucous tissue and the skin. Some clinicians are starting to apply it in USA, and now also in Europe. The efficacy of the Laser treatment of wound healing is known by many time in Europe and in Japan. In Laser Florence it received further confirmation in vitro, as shown by J. Anders from Bethesda on wound healing rate of diabetic rats, while K. Samoilova (S. Petersburg, Russia) presented a treatment protocol of decubitus ulcers of the geriatric patients, including the laser therapy. This protocol is followed in some centers of Italy and Russia. A. Hofstetter (Munchen, Germany) presented a new procedure of treatment of the Prosthatic hyperplasia, with the combination of the interstitial laser coagulation and high frequency current TURP. These procedure used in Munchen University was confirmed by R. Grifoni and GB Muraro (Ancona University, Italy), which presented all the urological applications of the Ol:YAG laser. JAS Carruth (Southampton, GB) and R. Baumgartner (Munchen, Germany) reviewed the Photodynamic diagnosis and therapy, with the particular application on the detection and treatment of the human neoplasias. AC Croce (Pavia-Italy) shown the possibility to delineate the margins of the glioblastoma with the autofluorescence, also during the resection, while ML Pascu (Bucharest, Rumania) used the optics proprieties of the cytostatic drugs to dose their activity during the use. L. Scalise and EP Tomasini (Italy, Ancona) studied the optical proprieties of the tendons and measured the flow of the artificial hearth valves using the optical proprieties of that. S. Gabay (Israel) given the last data on the interaction mechanisms laser-tissue.

S. Wolf (Erlangen, Germany) presented the examination of the facial musculature using the laser-myography, minus invasive than the electromiography and with the same precision. The reaction of the facial nerve during the Er:YAG treatment in vitro was shown by KF Mack (Hannover, Germany), while R. Hermann (Hannover, Germany) studied the interaction in vitro of the same type of laser with the soft tissue. JAS Carruth (Southampton, England) given a review on all the possible treatment laser in otolaryngology and in the treatment of the Port-Wine-Stain.

V. Jeganathan (Chennai - India) spoken about the Laser Broncology, while G. Brill (Saratov, Russia), V. Gulev (Novosibirsk, Russia), L. Navratil (Czech Rep, Prague), K. Byrnes (Bethesda, USA) given data on the action mechanisms of laser rays on the cicatrization of the skin, spinal cord, reparative tissue. V. Ovsianikov (St Petersburg, Russia) used the laser no-surgical tin the treatment of various types of infection, included the AIDS.K. Samoilova (Russia) and S. Warren (England) shown the effects of the no-coherent light on the reparative tissue and on the blood. W. Wong (Hong Kong University) presented the effects of the acupuncture laser on the pain treatment, G. Tam (Udine, Italy), S. Licheri (Cagliari, Italy) and L. Wilden (Bad Fussing, Germany) twenty years of experiences on the same sector of pain treatment with laser. The group of Dr. M Farinelli presented the effect of very low lvel laser therapy in spondilo-arthrosic patients, measured with the changement of the sonographic signs, while L. Longo shown a statistical comparison between two group of patients treated with two different types of diodes laser (904 and 810 nm), with low and high energy, and the same group of patients treated with two different types of lasers: in both the situations, the statistical analysis given better results and better convenience using the diode laser 810 nm with high power an less time of exposure. L. Navratil (Prague, Czech Rep.) presented a study were the laser low level were used in combination with the ultrasound in the treatment of the calcaneal spina, while M. D'Ovidio (Rome, Italy) used laser coupled with magnetotherapy. M. Tsakok from Singapore given positive data on the treatment of human papilloma virus with laser, while A. Vaitkuviene, from Vilnius University shown the possibility to use the laser fluorecence for the diagnosis of the status of the Endometrium mucosa, physiological and pathological. The ophtalmologists A. La Torre (Firenze, Italy), G. Virgili (Firenze, Italy) and M. Mertz (Munchen , Germany) discussed the news of the last time: the photodynamic therapy of the macular degeneration for age and other diseases. A. La Torre used the laser also for the fluorangiography.

The laser resurfacing ablative and non ablative was discussed by M. Trelles (Cambrils, Spain) with hystological finding, K. Khatri (Boston, USA), with comparison of the follow up after the use of lasers CO2 and Er:YAG, D. Kamin (Encino, USA),



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L. Mazzi (Verona, Italy) and D. Key (Portland, USA). A Tenenbaum (Russia) proposed a protocol of treatment of the striae with laser and drugs, as O. Dobriakova (Novosibirsk, USA). A. Puglisi (Messina, Italy) shown a new cream to protect the skin after the resurfacing, while M. eElman (Israel) shown his data of laser Alexandrite hair removal treatment, and W. Baumler the same obtained with diode laser 810 nm.

Frts De Mul (Twente, Holland) shown the diagnostic possibilities with the laser: the Optical tomography, the laser doppler and others. D. Cassuto (Milan, Italy), O. Marangoni (Trieste, Italy) and F. Spinelli (Crotone, Italy) shown their experiences on the treatment of the telangiectases with 532 nm, and 808 nm, and haemorrhoidectomy with lasers.

In conclusion, the new data obtained of this congress are: practical application of the laser tissue welding in surgery; established protocol of treatment of cutaneous ulcers with laser; High power laser with large spot used with success as non-surgical laser, for wound healing and in the pain management; laser used rather than acupunctures in acupuncture; new procedures of treatment of prostatic hyperplasia; new method of diagnosis of the mucous endometrium state; Laser miography, laser optical tomography and new about the laser doppler. New systems of laser rejuvenation and new dosage of Er-YAG laser resurfacing.

We wait all at the next Laser Florence 2001, held in November 7-11, 2001.