





WORLD FEDERATION FOR LASER DENTISTRY 2010 DUBAI CONGRESS

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In Conjunction with

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Conference Booklet

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Selective removal of carious dentin using a novel mid-infrared wavelength "6.02 micro meter"

Hall 2 | 10:45 - 11:00

The objective of this study is to develop the less-invasive treatment technique of carious dentin by selective absorption effect using the laser with a wavelength of 6.02 \(\text{Mm} \) which corresponds to an amide 1, band. The irradiation condition of 6.02 \(\text{Mm} \) wavelength, 20 \(\text{W/cm2} \) average power density and under 30 s irradiation time realized to remove a decalcified region selectively in a scanning electron microscope observation. In the same energy condition, serious side effect was not observed on the surface of normal dentin. The wavelength of 6.02 \(\text{Mm} \) is a novel and promising technique toward to next-generation dental treatment procedure.



Abad-Sánchez Daniel*, España-Tost Antonio, Arnabat-Dominguez Josep

Emdola Postgratuate

Clinical evaluation of low level laser (660nm) for the treatment of dentinal hypersensitivity .

Hall 2 | 11:00 - 11:15

The aim of this study was to evaluate the efficacy of the diode laser 660nm for the treatment of the dentinal hypersensivity following the scaling and root planning. Twenty patients (age 18-65) who treated for scaling and root planning (SRP. The study design was an split-mouth randomized and prospective. Laser treatment consists in a diode 660nm laser with 30mw power and 20 Hz .Each tooth of upper or lower maxillary was treated during sixty seconds. The measurements of dentinal hypersensitivity was recorded with and VAS scale at baseline (one week of SRP) and one week and one month after laser treatment. All patients who treated with SRP showed an dentinal hypersensitivity in almost 50% of teeth. The maxillary upper/lower $zone\,treated\,with\,laser\,showed\,and\,significance\,reduction\,in\,dentinal$ hypersensitivity at baseline (85%), one week post laser (60%) and one month after laser treatment (45%) when it was compared with the control zone. Based in our findings we conclude that low-energy biostimulative laser treatment can be successfully used for treatment of dental hypersensitivity following scaling and root planning.



A Bagheri*, R Fekrazad

DDS, MSc
Assistant Professor

Efects of photodynamic therapy in treatments of malignant and premalignant of oral and maxillofaciall.

Hall 2 | 11:15 – 11:30

Photodynamic therapy is a recently developed treatment involving the use of photosensitizer and special laser light. Photosensitizers are chemical or synthetic that are first generation hematoporphyris and it is commondly pharests
are 5-Aminolevulinic Acid and
(mTHPC). Lasers are the present
diode lasers commoly real acid
high power out put, por acid
advanced cancers who have a
achive significant clinical be real
with PDT specially mTHPC and



Luciane H. Azameza C. Galletta, Cartinosa Eduardo, Dante H. Monaco

DOS, MS, Phil) Professor at the Man Lasers in Democry (Pi Demistry Clinic Dem Labor and Clinica (Pi

Oral varix treated by photocaegolic disconnection disconnection and disconnection an

Hall 2 | 11:30-11:45

The purpose of this study and photocoagulation with highoral varix (VAR). VAR is an actual tissue loosening and increased found on the tongue. In order asymptomatic, they can been were treated with a noncomment treated with one irradiation secondary session in one case. Postoperative discomfort and minimal. Photocoagulation and minimal.



R Fekrazad, S # in the same and Sadighi*

The use of laser fluorescence on the technique

Hall 2 | 11:45-12:00

Dentinal cracks should be considered and diagnosis of them could be microscope at magnification and of cracks before cracked fluorescence based device. Described to caries detection, has been used in recent basic study. The use and MB) dye on detection of demands and magnifications.

Materials and Methods: Demonstrated on 60 extracted human teeth stereomicroscope, The Diagnoster of MB solution. Statistical and p<0.01 was considered significant.

Results : Diagnodent values has significant features and parameters.

Conclusion :Laser fluorescence translated used to detectand evaluate dentires