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NEWSLETTER No. 14

World Federation of Societies for Laser Medicine and Surgery

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Safety Guidelines for PDT in Early Stage Lung Cancer

The Japan Society for Laser Surgery and Medicine (JSLSM) has set safety guidelines for PDT in Early Stage Lung Cancer. Here is the summary of the guidelines. For further and detailed information, please see *Laser Therapy vol.15, no.3*, the official journal of IPTA, which will be published shortly.

Safety Guidelines for PDT in Early Stage Lung Cancer

1. Purpose: These safety guidelines list rules set for procuring safety of doctors and medical personnel while performing PDT for early stage lung cancer.
2. Qualification of the doctor and medical facility
 - 1) Requirements of the medical facility

PDT for early stage lung cancer must be performed in facilities which have adequate hardware such as bronchoscopic and laser devices to perform the procedure and also have doctors under commission who are experienced in operating such hardware and have a thorough knowledge of the drugs uses in PDT.
 - 2) Requirements of doctors

Doctors performing PDT must be a member of the Japan Photodynamic Association, a board certified member or supervisor of the Japan Society for Respiratory Endoscopy and also a board certified member or supervisor of the Japan Society of Laser Medicine and Surgery.

3. Conforming to and preservation of attached information and manuals

Doctors and medical personnel, on performing PDT, must read the attached information and manual for drugs used in PDT and the laser device. The medical facility must preserve all pertinent text at the place of PDT where all can be referenced at any time.

The founder of the medical facility must have the manager and the user of the laser device to conform with the attached instruction.

If at any time a drug induced complication or mechanical failure of laser devices occurs, the incident must be reported to the respective pharmaceuticals and/or distributor/manufacturer of the laser device and if necessary to local or federal authorities.

4. Indications of PDT for early stage lung cancer

Surgical resection is the first choice for early non-small cell lung cancers, however, PDT has recently been introduced as respiratory function conserving treatment. Reports show fair results and it is being acknowledged as an alternative to surgery.

5. Rules of Safety for PDT

Rules for safe PDT are listed below in chronological order of a given patient

- 1) Pre-treatment examinations
- 2) Inspection of devices before PDT
- 3) Preparation of the photosensitizer
- 4) Management of the patient after infusion of the photosensitizer (to avoid hypersensitivity to light)
- 5) During PDT
- 6) After PDT
- 7) Patient management during photosensitized period
- 8) Informed consent

6. Rules for dealers and distributors of photosensitizers and laser hardware used for PDT

- 1) Obligation of the distributor to provide ample instructional material
- 2) Documentation of confirmation of delivery of laser hardware.

Establishment of the Japanese Society for Laser Reproduction (JaSLaR)

It is our great pleasure to report that the Japanese Society for Laser Reproduction (JaSLaR) was formed and the first meeting was held in Tokyo on April 2nd.

Nowadays, like the other advanced countries, Japan faces the problem of declining birthrate (approx. 1.3/person). As one of the countermeasures, various ways of assisted reproductive technology (ART) have been utilized, and the conventional ART combined with low reactive level laser therapy (LLLT) have attracted a great deal of attention lately because of the favorable outcomes associated with this approach.

In Japan there are now four facilities which apply LLLT combined with ART, and 60 babies (“laser babies”) were born as the result of combination of ART and LLLT. JaSLaR was established as a meeting/congress/study group to share information among doctors and medical personnel who work on or who have interest in ART with LLLT.

The program of the 1st study meeting was as follows;

- I Opening address by the president
Toshio Ohshiro, the president, JaSLaR
- II Lecture
“Low-reactive Level Laser Therapy”
Toshio Ohshiro
- III Case report by the clinics
“Female Sterility Treatment Combined with LLLT”
Hidehisa Iwahata, Iwahata Clinic
“Introduction of LLLT for Intractable Cases of Female Sterility and its Effects”
Toshihisa Iwahata, Kanuki Iwahata Clinic
“Two Cases of Female Sterility in which Laser Therapy was Effective”
Toshun Jo, Jo Clinic
“Therapeutic Experience of LLLT on the Female Sterility at the Ohshiro Clinic”
Shunji Fujii, Ohshiro Clinic
- IV Special Lecture
“Countermeasure in low responders to COS”
Bunpei Ishizuka, Professor, St. Marianna University
of Medicine
- V Demonstration
“Hands-on Session of LLLT”
Toshio Ohshiro
- VI Discussion
Special Comment “From the Viewpoint of Immunology”

Kou Okumura, Professor, Juntendo University School
of Medicine

VII Election of Board Members, Discussion on the 2nd Meeting

The elected board members of JaSLaR are: President	Dr. Toshio Ohshiro
General Secretary	Dr. Hidehisa Iwahata
Treasurer	Dr. Shunji Fujii

It was also decided that we will hold the 2nd meeting on March 4, 2007 at Shinsei Kaikan, Tokyo, and have periodical sessions from now on and we would like to cover the report of the sessions/meetings on this Newsletter. We hope this activity will contribute to the welfare of people in Japan, and eventually worldwide.