



National Discount X-Ray Supply

9944 Weber Street 1 Brighton, Michigan 48116

Phone (800) 540-3456 1 Fax (800) 798-4691

CLIENT DISCLOSURE STATEMENT

Thermoluminescent Dosimeter (TLD) badges should be worn by x-ray professionals whose work involves a direct or potential exposure to radiation. Our Dosimetry service is a convenient and cost-effective way to meet State and Federal Regulations.

PL Medical Co., LLC provides a monitoring service, which processes exposed TLD Badges on a regularly scheduled basis using state-of-the-art technology and dose assessment algorithms.

Our laboratory is accredited by the National Institute of Standards and Technology through the National Voluntary Laboratory Accreditation Program.

Accredited by:



NVLAP LAB CODE 200666-0

In compliance with ISO 17025: 1999, ISO 9002 : 1994

TLD BADGES

TLD dosimeters are one of the most advanced applications of thermoluminescent detectors. The TLD's detect exposure with four independent detection elements and are capable of estimating doses at three tissue depths. The automated process for badge reading and report generation eliminates the chance of human error. All records are electronically stored for future reference.

The badges are small, lightweight and clip easily to clothing. Each badge is punch coded with an ID number for identification and tracking.

INSTRUCTIONS

You will receive new badges for every employee every three months along with a reply envelope for returning the badges for processing and reporting.

A control badge is provided free of charge for each cycle and is essential to the monitoring system. It is used to determine background radiation during transit and while the badges are at the clinic. This control reading is subtracted from the individual employee badge readings during processing to obtain the occupational dose. **DO NOT WEAR THIS CONTROL DOSIMETER.** It should be stored in the same location as the employee badges when they are not being worn. This should be outside the x-ray rooms, in an area free from radiation, high temperatures and humidity. Do not keep them inside a drawer or any other container.

At the end of the wear period, it is of utmost importance that the correct control badge be returned with the appropriate shipment. If this procedure is not followed, the accuracy of the TLD analysis may be affected. Results for TLD's received more than 90 days after the end of the scheduled cycle may compromise the accuracy of the TLD analysis.

Wear your badge throughout the workday. Do not take the TLD's home or expose them to high temperatures or high humidity. Only the individual whose name appears on the label should wear the TLD. Do not share or make changes to the TLD.

Due care should be taken to avoid contamination of the dosimeters. Contamination of the badge with liquids or other substances will destroy its effectiveness for measuring radiation exposure levels. Adequate precautions should be taken to avoid excessive exposure to radiation when taking x-rays that entail holding a patient.

Annual Radiation Exposure Limits

Based on the Nuclear Regulatory Commission's recommendation (Code of Federal Regulations Title 10, Part 20) the maximum annual limits are:

Whole body	5,000 mrem/year
Lens of Eye	15,000 mrem/year
Extremity and skin	50,000 mrem/year
Fetal	500 mrem/year
General public	100 mrem/year

Over exposure to ionized radiation can present potentially serious health problems. Without accurate monitoring, there is no continuing way of tracking radiation exposure. It is a convenient and cost-effective way to meet State and Federal Regulations.

Minimum Dose and Type of Radiation

Dose is reported as zero if it falls below the minimum detectable limit.

X-ray, gamma, beta	10 mrem
Fetus badge	10 mrem

Dose Report

Once the TLD's have been returned to our laboratory, a dose report will be issued. A printed report will be sent to the clinic for your records. A printed report will be sent to the clinic for your records. The report includes the current monitoring period, the dose equivalents for the monitoring period and year-to-date and lifetime dose information for each returned badge. If you are currently using another service, we can incorporate the lifetime data into our records from their final report.

The dose report also cites the annual exposure limits. If any reading should ever exceed the safety standards, the clinic will be contacted by phone by an authorized representative of PL Medical Co., LLC. You can help us provide you with accurate reporting by returning all the TLDs including the correct control TLD promptly at the end of each wear period. Additional copies of the dose record can be obtained by contacting our laboratory.

The dose report contains the following elements:

- Deep dose applies to external whole body exposure at a tissue depth of 1cm, density 1000 mg/cm²,
- Shallow dose applies to an external exposure of the skin or other body extremity at a tissue depth of 0.007cm, or density 7 mg/cm²
- Eye dose applies to an external exposure of the lens of the eye at a tissue depth of 0.3cm, or density 300 mg/cm².

How to start the service

Every staff member working with x-ray equipment should be assigned a TLD badge.

AMI Film Bin will complete the order form online or in the brochures.

Subscription includes:

1. Automatic badge replacement every three months, for one year.
2. Reply envelope for returning badges for dose assessment.
3. Fully automated, computer generated report.
4. Control badge provided at no charge

To provide you with uninterrupted service, your subscription will automatically renew at the end of the year unless we are informed otherwise.

There is a \$5 replacement fee for a lost/ not received badge. Invoicing for non-received TLDs occurs if a badge has not been received within 6 months after its end-of-wear date. There is a charge for an extra control badge in case of add-ons required by the client.

How to make a change in service

AMI Film Bin will update your service information. The clinic will be charged or credited on a pro-rated basis.

Note:-

- The dose report shall not be reproduced, except in full, without written approval of PL Medical Co., LLC.
- The dose report must not be used by the client to claim product endorsement by NVLAP.
- Information on rules and regulations as determined at the state level can be obtained by contacting your State Radiological Board or Health Department.
- Information on radiological safety regulations can be found by contacting the U.S. Nuclear Regulatory Commission and requesting a copy of Title 10, Code of Federal Regulations, Part 20, or by contacting OSHA and requesting Title 29, Code of Federal Regulations, Part 1910.

Signature: _____

Signature: _____

Printed Name: _____

Printed Name: _____

Title: _____

Title: _____

Company: _____

Company: National Discount X-ray Supply

Date: _____

Date: _____

X-ray Badge Service Order Form

Account Number _____

Clinic _____

Dr. _____

Address: _____

Contact: _____

Phone: _____

Email: _____

Credit Card You would like this order on _____ ex. _____
Visa MasterCard Discover AMXP

1) Name: _____

SSN _____ DOB _____

2) Name: _____

SSN _____ DOB _____

3) Name: _____

SSN _____ DOB _____

4) Name: _____

SSN _____ DOB _____

5) Name: _____

SSN _____ DOB _____

6) Name: _____

SSN _____ DOB _____

7) Name: _____

SSN _____ DOB _____

8) Name: _____

SSN _____ DOB _____

9) Name: _____

SSN _____ DOB _____

YES I want to switch my services
My current contract ends ____/____/____

Date you would like service to start ____/____/____