



PL Medical Dosimetry Services

Company History

Ken Kanwar founded Company in 1989 – located in Bloomfield, CT

Originally a dealer of X-Ray Equipment, Film & Imaging Supplies

NVLAP Accredited Lab with Panasonic TLD's in 2003

PL Medical originally sold Dosimetry through Distributors

Rahul Kanwar, Ken's son, joins Company in 2007

Kevin McDonough, R.T. (R) joins as National Sales Director 2018

PL Medical obtains NVLAP Accreditation for new OSL Badge in 2019



PL Medical Dosimetry Services

Our Clients enjoy these Great Benefits:

World Class Customer Service

Dedicated Customer Service Manager

FREE control badges for every location at NO charge

New OSL badges & rings - NVLAP Approved September, 2019

FREE changes to your account (for all additions & deletions)

NO CHARGE for shipping to you & your multiple locations

FREE Online Access - for Account Management and Report Access

Kevin McDonough, R.T. (R) at 407-496-4790



PL Medical Dosimetry Services

Our Clients really love these benefits too:

- FREE Shipping on ALL Regularly Scheduled Shipments**
- FREE Shipping & Sorting to ANY & ALL multiple location**
- FREE Changes to your account (additions & deletions)**
- FREE Online Access & Emergency Notifications**
- Discounted GPO Participation Pricing**
- Dedicated Customer Service Agent**
- FREE Account Maintenance**
- No Hidden Fees**

Types of Dosimeters Available for you:

(**top**) PL Medical new OSL Badge with hanger clip

(**middle**) “All in One” Beta/Gamma/Neutron Badge

(**bottom**) “Saturn” style, soft rubber ring with TLD
available in small, medium, large and extra large
(see FAQ's for more information on our products)





PL Medical Dosimetry Services

Technical Specifications

Monthly, Bi-Monthly, Quarterly, Semi-Annual & Annual reporting periods

Minimal Reporting – accurate within +/- 1 mrem

Minimum Reportable Dose: 1 mrem (0.01 mSv); usual 10mrem

Energies Measured: X-Ray, Beta, Gamma

Neutron capability available with “all in one” Dosimeter

Opportunity to re-analyze with OSL technology

High sensitivity, improving low dose precision

Dosage reports & history viewable for any wearer



PL Medical Dosimetry Services

How to get started with PL Medical Dosimetry

Call Kevin McDonough, R.T. (R) at 407-496-4790 (Eastern time)

Email Kevin at Kevin.McD@plmedical.com

Let Kevin know how many badges/rings per wear period you require

Send Kevin an updated wearers list (he will send you one in Excel)

Pick a start date & cancel your current service

<https://myaccount.plmedical.com/LoginCreatePrimary.aspx>



PL Medical Dosimetry Services – FAQ's

- **What type of information does the PL Medical OSL imaging provide?**
- The filter pack imaging area renders unique filter patterns that provide qualitative information about conditions during exposure. Imaging to identify static, dynamic, or contamination conditions is automatically performed for all beta and low-energy photon measurements yielding a dose in excess of 500 mrem (5 mSv).
- **What does the ring use to measure radiation exposure?**
- PL Medical's thermoluminescent (TLD) ring dosimeters (Saturn[®]) The TLD chip is safely encapsulated inside the identification cover. The cover and TLD are independent of the ring base.
- **Can the rings be sterilized?**
- PL Medical's Extremity Rings can be cold sterilized in ethylene oxide and in disinfectants including Cidex[®]



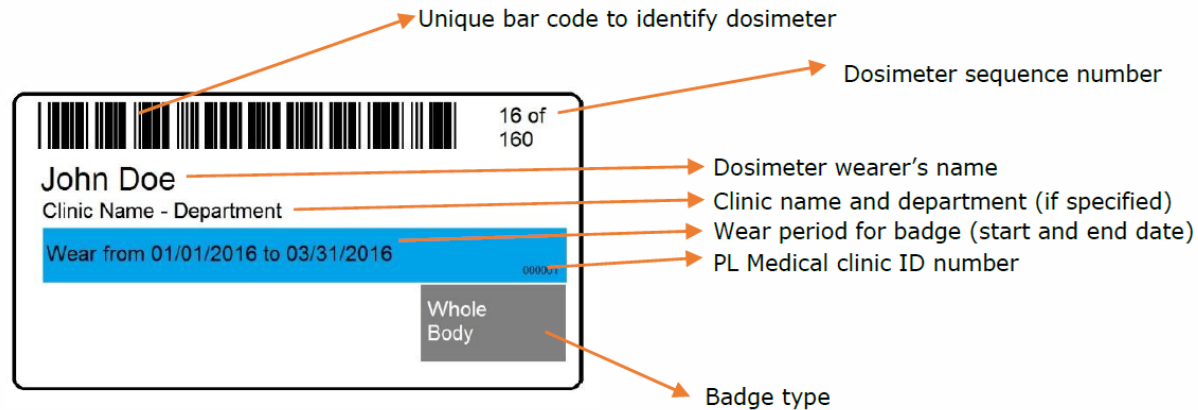
PL Medical Dosimetry Services – FAQ's cont.

- **Do we need to provide the SSN and birthdate?**
- We DO NOT use SS #'s, but please check with your Radiation Safety Office, as they may require this information on your reports. For privacy and/or posting needs, you can request that PL MEDICAL suppress on the second and remaining copies of a report the ID number and date of birth; or the name and date of birth; or the name.
- **Do we need to provide a PO# when ordering service?**
- No, we do not require purchase orders when ordering service. Let us know if you need one for your in-house accounting requirements. We can issue a PO# to any Client who may need one.
- **How will I know when it's time to exchange my dosimeters?**
- Approximately one week before your exchange date, your new badges/dosimeters will arrive. The date shown on either the front or the back of the dosimeter is the beginning date of your wear period. Use your dosimeters beginning on the wear date or as close to that date as possible.
- Return all used and unused dosimeters at the end of each wear period along with the control dosimeter(s) of the same type and wear date. Note: 1st shipments have no return envelope.



PL Medical Dosimetry Services – FAQ's cont.

Badge Label Information





PL Medical Dosimetry Services – FAQ's cont.

- **What is inside the PL Medical OSL, and how does it work?**
- Inside the PL Medical OSL is an integrated, self-contained packet that comes preloaded, incorporating a thin strip of specially formulated aluminum oxide crystalline material sandwiched within a four-element filter pack that is heat sealed within a laminated, light-tight paper wrapper. All of these components are RF (radiofrequency) sealed inside a tamper-proof plastic blister pack to eliminate possible mishandling, light leakage or lost detection elements.
- The PL Medical OSL dosimeter measures radiation exposure due to x, gamma and beta radiation with optically stimulated luminescence (OSL) technology. The OSL radiation detector inside the dosimeter is the thin strip of specially formulated aluminum oxide (Al_2O_3) crystalline material. During analysis in our laboratory, the Al_2O_3 strip is stimulated with selected frequencies of laser light causing it to luminesce in proportion to the amount of radiation dose and the intensity of stimulation light.
- The luminescence measured during analysis is applied to a dose algorithm that relies on the response ratios between different filter positions within the dosimeter to discriminate between beta and photon (x and gamma) radiation fields to determine exposure results. Dose equivalents arising from exposures to photons (x or gamma rays) will have a deep, lens of eye and shallow value reported. Depending on the energy of the x or gamma rays, these values may or may not be equal. Beta exposures are reported only as a shallow dose equivalent.



PL Medical Dosimetry Services – Thank You, ATLSRT Members!

On behalf of PL Medical Co., LLC, thank you for choosing our service for your Dosimetry needs. Our NVLAP accredited dose monitoring program is required to demonstrate compliance with State and/or Federal regulations.

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