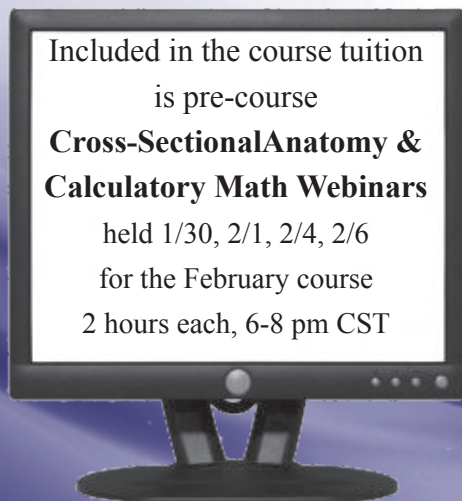


# 2012

## Medical Dosimetry: An Initial Training Course/Part I

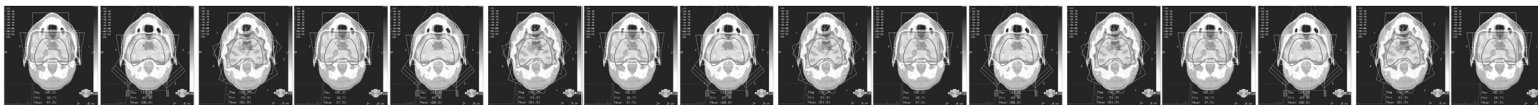
**Milwaukee, WI**  
**February 8-11, 2012**  
**September 5-8, 2012**



# MTMI

Medical Technology  
Management Institute

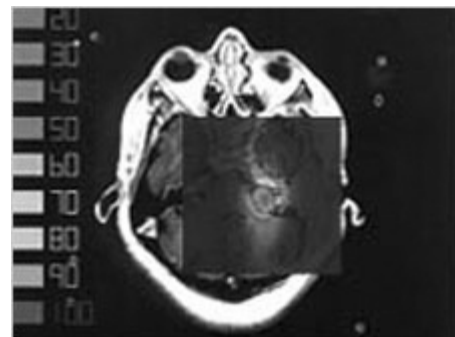
*Making Technology Work for You!*



## Medical Dosimetry: An Introductory Course

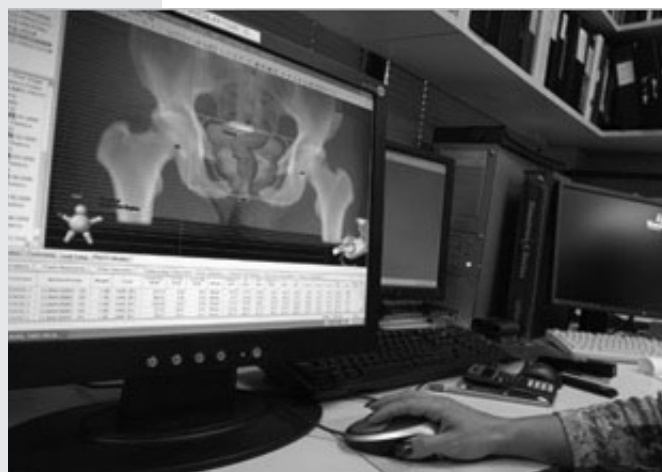
### ••••• Day One •••••

- Defining Dosimetry
- Applied Math
- Radiation Physics
- Modern Equipment
- Treatment Methods
- Beam Physics
- Isodoses
- Beam Modification
- Treatment Preparation
- Math Workshop



### ••••• Day Two •••••

- Treatment Preparation
- 3D CRT
- Treatment Calculations/Problems
- Isodose Distributions
- Treatment Principles

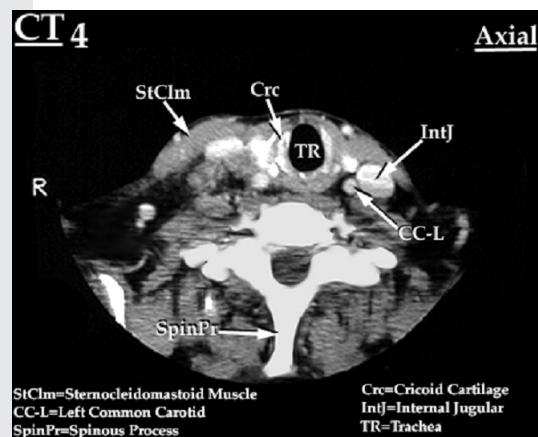


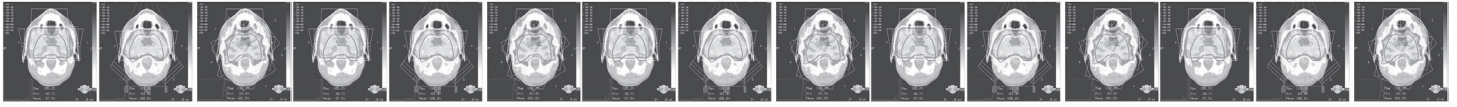
### ••••• Day Three •••••

- Cross-Sectional Anatomy
- MRI and PET
- Treatment Prescription and Beam Placement
- IMRT/Inverse/Forward Planning
- Breast Planning
- Abdomen and Pelvis Planning
- Discussion of Problems

### ••••• Day Four •••••

- Clinical Site(s) - Interactive Treatment Planning Labs
  - Pinnacle, Eclipse
  - ... schedule subject to change ...





This course provides a comprehensive overview of medical dosimetry starting from basic principles through practical clinical applications. These intensive four days are a combination of didactic training, workshops and hands-on labs. Modeled after the AAMD's Medical Dosimetry Education Program guidelines, this course is sure to satisfy attendees seeking a thorough understanding of complex dosimetry principles. The course will be beneficial for both new comers to medical dosimetry and established dosimetry practitioners alike. The workshops and labs, facilitated by physicists and certified dosimetrists, will provide attendees with first hand experience from within clinical settings. The content is thorough and specific. Not only will this help fulfill the need of didactic training but will provide clinical insights necessary to implement knowledge gained in a practical setting, attendees may utilize the knowledge gained towards professional development, entry into the field, or CMD certification. MTMI has coordinated their comprehensive dosimetry curriculum in such a manner that individuals or facilities can take full advantage of each component at their own pace or at the desired level of development needed. Once professional objectives have been achieved, attendees are ready to advance to the next component of this comprehensive dosimetry curriculum.

## Objectives

*At the completion of this course, participants will be able to:*

- Integrate knowledge of dosimetric principles and understanding of radiation dose distributions into day-to-day delivery practices.
- Describe 2D and/or 3DCRT treatment planning approaches commonly used for various anatomical regions.
- Explain various methods for photon planning and impact of field configurations on isodose distributions.
- Define complex factors, recognize options for their use, and interpret their dosimetric impact.
- Design computer generated treatment plans.
- Formulate methods in the plan optimization process and evaluate effectiveness of plans.
- Appreciate the impact of various plan designs on dose limiting structures & organ tolerances.
- Utilize applied mathematics to calculate doses to defined targets and solve complex mathematic equations.
- Function effectively within dosimetry under supervision of a qualified physicist or dosimetrist, incorporate sound dosimetry practices within the technical setting.
- Participate or assist in dosimetric activities.
- Serve as a mentor within Medical Dosimetry.

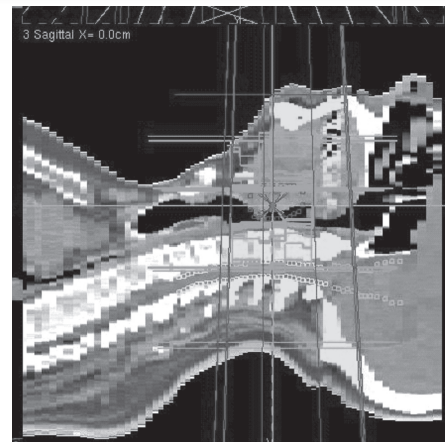
## FACULTY

Glenn Glasgow, MS, PhD, FAAPM, FACR  
- Course Director

Nishele Lenards, MS, CMD, R.T. (R)(T)

Kristie Slattery, CMD, R.T. (R)(T)

*... faculty subject to change ...*



## Continuing Education Credit

This course provides 28 hours of Category A credits for Radiation Therapists recognized by the ARRT and 28 continuing medical education credits for Certified Medical Dosimetrists recognized by the MDCB. A certificate of attendance will be provided for each individual upon completion of the course. All attendees must attend the entire course to receive full credit.

## Registration

### To register for this course:

- ☎ go to [www.mtmi.net](http://www.mtmi.net) or ☎ complete the registration form below and
  - ✉ mail it with your tuition to **MTMI**, or
  - ☎ call (800) 765-6864 using MasterCard or Visa, or
  - ☎ fax the form to (262) 717-9171 w/credit card info. A special advance price for those registering and paying prior to 21 days before the course is listed in tuition breakdown.
  - Refunds, minus a \$50 processing fee, will be granted for cancellations received prior to 3 days before the course.
  - Cancellations received within 3 days of the course will receive a credit toward a future **MTMI** program, minus the \$50 processing fee. No refunds will be made after the course.
- MTMI** reserves the right to cancel any scheduled program because of low advance registration or other reasons. **MTMI's** liability is limited to a refund of any program tuition paid. **MTMI** recommends that attendees use refundable airline tickets. In case of cancellation of a seminar for any reason, **MTMI** is not responsible for travel costs incurred by attendees including non-refundable airline tickets.

## Sponsorship

**MTMI** recognizes the educational support of:



# PHILIPS

Radiation Oncology Systems



## Location & Accommodations

**Course held at the MTMI Education Center**  
 20900 Swenson Dr.,  
 Suite 650  
 Waukesha, WI 53186

### Sleeping rooms at the Sheraton Milwaukee Brookfield

375 South Moorland Road  
 Brookfield, WI 53005  
 262-364-1100 [www.sheraton.com/milwaukeebrookfield](http://www.sheraton.com/milwaukeebrookfield)  
 Room Rate: \$89 single Make hotel reservations no later than 2 weeks before the course and identify yourself as an **MTMI** attendee.

#### Room Rate Includes:

- 15% discount for food & beverage in Alferes Restaurant
- Internet access
- Microwave & refrigerator upon request & availability
- Airport shuttle (contact front desk to make arrangements)
- Shuttle to and from **MTMI** Education Center
- Reception on first night of course
- Free parking



## Membership

Membership in the Medical Technology Management Institute includes:

- discounts on **MTMI** services
- web access to replace certificates
- special benefits throughout the year exclusive to members

Joining **MTMI** with this registration qualifies you for the member discount. Indicate your interest in membership on the registration form or call **MTMI**. Annual membership dues for technologists are \$39, physicists \$65. and physicians \$79.

## Register early and SAVE!

### Introductory Dosimetry Course Registration Form

Please Print Clearly - This is how your name will appear on your certificate.

Name: \_\_\_\_\_ degree/title \_\_\_\_\_  
 Home Address \_\_\_\_\_ City \_\_\_\_\_  
 State: \_\_\_\_\_ Zip code: \_\_\_\_\_ e-mail \_\_\_\_\_  
e-mail address used only for notification of future programs  
 Day phone ( ) \_\_\_\_\_ Eve. phone ( ) \_\_\_\_\_ FAX ( ) \_\_\_\_\_

Please enclose payment by credit card or check made payable to **MTMI**.

Registration Fees	Early price (more than 21 days early)	Regular price (within 21 days)
Introductory Course	<input type="checkbox"/> \$1295 <input type="checkbox"/> \$1275(member)	<input type="checkbox"/> \$1395 <input type="checkbox"/> \$1375(member)
Membership discount applies immediately	<input type="checkbox"/> \$39 - therapists, technologists, dosimetrists <input type="checkbox"/> \$65 - physicists <input type="checkbox"/> \$79 - physicians	

Feb 8-11, 2012

Sep 5-8, 2012

total \$ \_\_\_\_\_

Call 800-765-6864  
 2 weeks before the seminar if you have special needs.



Credit Card Number \_\_\_\_\_ Master Card Visa Check  
 Expiration Date: \_\_\_\_\_ Signature \_\_\_\_\_

Return to: **MTMI** ♦ 20900 Swenson Dr., Suite 650 ♦ Waukesha, WI 53186  
 800-765-**MTMI**(6864) or 262-717-9797 or fax 262-717-9171 or e-mail [custservice@mtmi.net](mailto:custservice@mtmi.net)  
 Your satisfaction with **MTMI** programs is guaranteed, a guarantee we are confident you won't need to use.