

Training Courses

Medical Dosimetrist Course

Train to
become a
Dosimetrist

October 5-16

ADVANCED Dosimetry Course

Advance your
career in
Dosimetry

Nov 12-14



2009

MTMI

Medical Technology
Management Institute

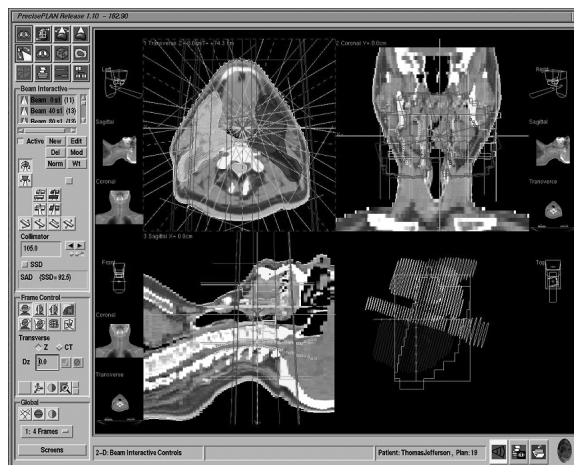
Medical Dosimetrist Course

Day One	<p>First day of both the <u>12 day Comprehensive Course</u> & the <u>7 day Initial Dosimetrist Training</u></p> <ul style="list-style-type: none"> •Introduction •Applied Mathematics •Treatment Modalities - External Beam Equipment •Medical Imaging in Radiation Oncology •CT Simulation •PET/MRI •Computers & Networks •Isodose Distributions
Day Two	<ul style="list-style-type: none"> •Treatment Preparation •External Beam Dose Calculations
Day Three	<ul style="list-style-type: none"> •External Beam Dose Calculations (cont.) •Clinical Treatment Planning
Day Four	<ul style="list-style-type: none"> •Review Irregular Fields & Hand-Calculations •3D Treatment Planning •Clinical Treatment Planning- head & neck, CNS
Day Five	<ul style="list-style-type: none"> •Radiation Protection •Nuclear Physics •Clinical Treatment Planning - abdomen/pelvis •Review/Exam •Radiation Biology
Day Six	<ul style="list-style-type: none"> •Hands-On Treatment Planning Lab (full day)
Day Seven	<ul style="list-style-type: none"> •Hands-On Treatment Planning Lab (half day)
Day Eight	<p>First Day of <u>5 day Medical Dosimetrist Training - Intro to Sub-Specialties</u></p> <ul style="list-style-type: none"> •Lab Case Review •Clinical Oncology and Treatment Planning •Quality Assurance •Electron Beam Physics/Clinical Characteristics •Electron Beam Treatment Planning •Hand Cals Lab
Day Nine	<ul style="list-style-type: none"> •Re-treatments •Pediatrics, Craniospinal, TBI •Stereotactic Radiosurgery/Radiotherapy •IMRT
Day Eleven	<ul style="list-style-type: none"> •Brachytherapy Physics/Clinical Case Studies
Day Twelve	<ul style="list-style-type: none"> •Review/Final Exam <p>(course schedule subject to change)</p>

Objectives

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

- identify the basic principles of calculating radiation dose distributions for radiation therapy.
- explain treatment planning procedures and simulation of radiation therapy treatments using photons & electrons.
- describe treatment planning approaches commonly used for various anatomical regions of the body.
- function as an apprentice dosimetrist under the supervision of a qualified medical physicist or dosimetrist.



Advanced Dosimetry Course

Objectives

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

- Identify appropriate imaging modalities including strengths & weaknesses for brain, lung, & breast IMRT treatment planning.
- Identify appropriate simulation and image guided techniques for multiple disease sites, including use of image fusion.
- Identify appropriate targets and avoidance structures for CNS, lung, GI and breast IMRT.
- Discuss several means of gating and disease sites where applied.
- Demonstrate the use of two types of Dose Volume Histogram (DVH) data to evaluate plans.
- Spot problems in a plan & correct them based on common dosimetric themes that occur when creating an IMRT/IGRT treatment plan.
- Discuss issues in quality assurance and control measurements for IMRT/IGRT verification.
- Identify the concepts behind and the differences between TomoTherapy treatment planning & conventional IMRT.
- List several disease sites appropriated for proton therapy.

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|--------------|---|
| Day 1 | <p>Introduction</p> <ul style="list-style-type: none"> •IMRT and IGRT <p>Introduction to IMRT
 IMRT/IGRT Site: Paraspinal Tumor</p> <ul style="list-style-type: none"> •Overview of planning process <p>IMRT/IGRT Site:
 Gating Methods for Liver, Pancreas
 Workshop Over Day's Topics
 Proton Therapy</p> |
| Day 2 | <p>The Role of Imaging in Radiation Therapy</p> <ul style="list-style-type: none"> •Imaging in simulation, tumor localization and guidance •Hybrid imaging •Cone beam CT - KV and MV <p>IMRT/IGRT Site: Prostate/Head and Neck
 Workshop Over Day's Topics
 CyberKnife Concepts</p> |
| Day 3 | <p>QA/QC Methods for IMRT
 Treatment Verification</p> <p>IMRT/IGRT Site: Brain/Lung/Breast
 TomoTherapy Concepts
 Future Directions
 Workshop Over Day's Topics</p> <p>(course schedule subject to change)</p> |

Registration

To register for this seminar:

- ☎ go to 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

- Refunds, minus a \$50 processing fee, will be granted for cancellations received prior to the Tuesday before the seminar.
- Cancellations received after the Tuesday preceding the seminar will receive a credit toward a future MTMI seminar, minus the \$50 processing fee. No refunds will be made after the seminar.

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.

Membership

Membership in the *Medical Technology Management Institute* includes:

- ♦ discounts on MTMI service
- ♦ member newsletter
- ♦ web access to MTMI records
- ♦ biennium reminder
- ♦ yearly transcripts
- ♦ special benefits throughout the year exclusive to members.

Annual membership due for technologists are \$42.50, physicists \$59, and physicians \$79.

Tuition	Advance Pricing <small>(more than 21 days in advance of course)</small>		Regular Pricing <small>(within 21 days of course)</small>	
	non-member	MTMI member	non-member	MTMI member
Dosimetry Course week 1 (7 days) Initial Training	\$1995	\$1970	\$2195	\$2170
Dosimetry Course week 2 (5 days) Sub-Specialties	\$1295	\$1270	\$1395	\$1370
Dosimetry Course Complete 12 days	\$3095	\$3070	\$3295	\$3270
Advanced Course (3 day)	\$950	\$930	\$995	\$970

Sponsorship

MTMI recognizes the educational support of:



Location and Accommodations

Courses held at
MTMI Education Center
 20900 Swenson Dr., Ste 650
 Waukesha, WI 53186

Sheraton Milwaukee Brookfield
 375 South Moorland Road
 Brookfield, WI 53005
 262-364-1100
www.sheraton.com/brookfieldwisconsin
 \$99 single/\$104 double
 (Please ask for the MTMI discounted room rate.)

- Includes:
- ♦ Complimentary airport transportation (limited hours).
 - ♦ Complimentary breakfast buffet.
 - ♦ Major shopping mall next door, as well as many restaurants.
- At 4:30pm on Day 1 of each course, the Sheraton will host a reception for all course participants.

Course Registration Form

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

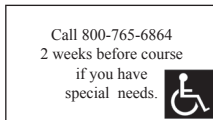
Name: _____ degree, title or certification Date: _____
 Home address: _____ City: _____ State: _____ Zip: _____
 *e-mail address: _____

* registration confirmation will be sent to this e-mail address - PRINT CLEARLY

Day phone: (____) _____ Eve. phone (____) _____ Cell phone: (____) _____

Please enclose payment to **MTMI**:

- \$42.50-technologist; \$59-physicists; \$79-physicians
(Membership discount effective immediately.)
- Dosimetrist Course (week one)
- Dosimetrist Course (week two)
- Dosimetrist Course (entire 12 day course)
- Advanced Dosimetry Course



Date of course attending:

 Total \$ _____

Credit Card Number: _____

- Master Card Visa

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
 Your satisfaction with **MTMI** programs is guaranteed, a guarantee we are confident you won't need to use.

MTMI

Medical Technology Management Institute

20900 Swenson Dr., Suite 650
Waukesha, WI 53186

TRAINING COURSES

Medical Dosimetrist Course and

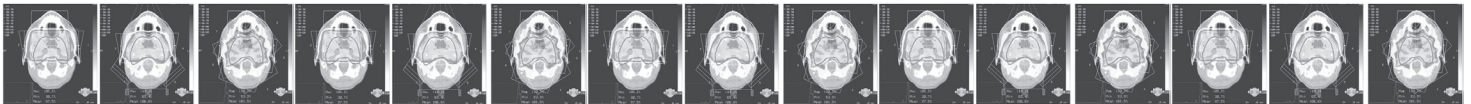
Advanced Dosimetry Course

held in Milwaukee, WI

Please Route to:

<input type="checkbox"/> Department Head	<input type="checkbox"/> Chief Technologist
<input type="checkbox"/> Facility Manager	<input type="checkbox"/> Section Supervisor
<input type="checkbox"/> Radiology Manager	<input type="checkbox"/> Staff Technologist

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Medical Dosimetrist Course

Advanced Dosimetry Course

This course is designed to provide efficient training in medical dosimetry with a rapid introduction to basic principles and an emphasis on their practical application in the clinic.

Prerequisites for admission to the program includes certification as a RT(T) by the ARRT and at least 1 year of clinical experience as a radiation therapist or a BS degree in physics with some previous training on the basic concepts and procedures of radiation oncology and radiation safety.

This Advanced Dosimetry Course will cover the latest uses of IMRT and IGRT, and the strengths and weaknesses of each technology. Experienced therapists, dosimetrists, physicians, and physicists involved with treatment planning, quality assurance, quality control, simulation and image fusion will find this course very beneficial. This is a great next step for those students who attended MTMI's Dosimetrist Training Course. All radiotherapy professionals with interest in learning more about IMRT/IGRT are encouraged to attend.

Continuing Education Credit

This course provides 78 hours of Category A credits for Radiologic Technologists recognized by the ARRT and 63.5 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.

Continuing Education Credit

This course provides 24 continuing medical education credits for Certified Medical Dosimetrists recognized by the MDCB and 24 hours of Category A credits for Radiologic Technologists recognized by the ARRT. 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.