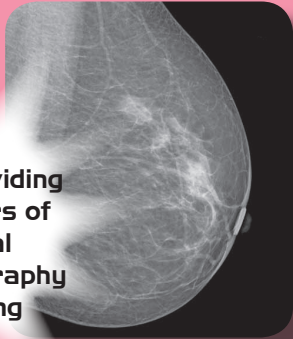


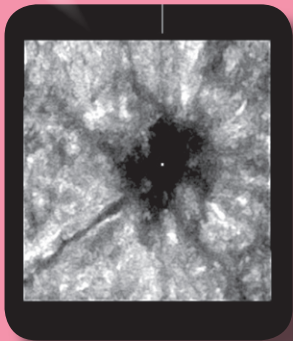
Cross Training Courses

Now providing
8.5 hours of
Digital
Mammography
Training



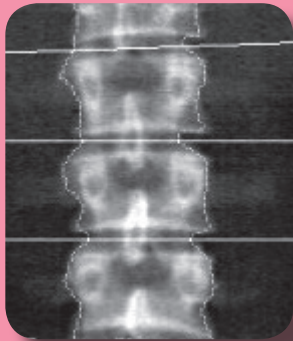
Mammography

February 3-7
April 21-25
June 23-27
September 22-26
November 10-14



Breast Ultrasound

March 13-15
May 15-17
August 21-23
October 2-4



Bone Densitometry

March 19-21
September 10-12

all Held at MTMI's
Education Center in
Milwaukee (Waukesha),
Wisconsin

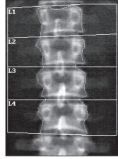
MTMI

Medical Technology
Management Institute

2009

Bone Densitometry Course for Technologists

20 Category A credit

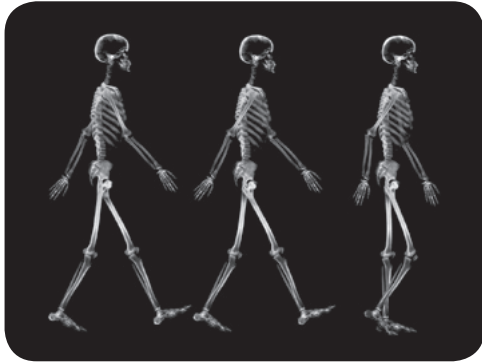


This intensive two and one half day course offers comprehensive didactic sessions taught by an experienced faculty. Hands-on demonstrations of bone densitometry scanning are included in the course.

Overview

This 2 1/2-day course is a comprehensive review of the role of bone densitometry in the diagnosis and treatment of osteoporosis. The course will cover the technology, clinical applications, interpretation of results, clinical procedures, handling of problem cases, safety, quality assurance and the establishment and operation of a bone densitometry service. A hands-on workshop demonstration of clinical bone densitometry units is included in the curriculum.

This course is appropriate for anyone wanting to practice bone densitometry including technologists, physicians, managers and allied health personnel. It would also be useful for individuals from companies offering products related to bone densitometry. The course will be useful to those setting-up, managing or operating a bone densitometry service as well as those preparing to take a certification exam, such as offered by the ISCD or ARRT.



Objectives

At the completion of this course, participants will:

- ◆ Be able to describe the pathology & physiology of osteoporosis.
- ◆ Know the risks factors involved in the development of osteoporosis.
- ◆ Describe the difference between pencil and fan beam technologies.
- ◆ Understand T & Z scores and their significance in the diagnosis of osteoporosis.
- ◆ Understand coding and billing.
- ◆ Understand the principles of photon absorptiometry.
- ◆ Have experienced a hands-on scanning demonstration.
- ◆ Have reviewed for the certification exam.

Course Schedule

8:30 am - 4:30 pm (day 1 & 2)

8:00 am - 12:00 pm (day 3)

Osteoporosis and Bone Health

- Definition and Types
- Bone Physiology
- Risk Factors
- Bone Mass Measurement Act
- Evaluation and Diagnosis
- Prevention and Treatment

Equipment Operation and Quality Control

- Dual Photon Energies
- DXA Components
- Pencil Beams vs. Fan Beam
- Scan Analysis Algorithms
- Factors Affecting Accuracy and Precision
- Equipment QC and Maintenance
- Maintenance, Repair and Upgrade
- Basic Computer Concepts

Patient Preparation and Safety

- Patient Preparation
- Radiation Safety

DXA Scanning of Lumbar Spine

- Anatomy Related to Scanning
- Scan Acquisition
- Lumbar Spine Analysis and Printout
- Problems Related to Positioning, ROI Placement and Analysis

DXA Scanning of Proximal Femur

- Anatomy Related to Scanning
- Scan Acquisition
- Scan Analysis and Printout
- Problems Related to Positioning, ROI Placement and Analysis

DXA Scanning of Forearm

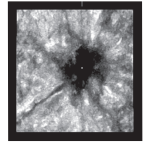
- Anatomy Related to Scanning
- Scan Acquisition
- Scan Analysis and Printout
- Problems Related to Positioning, ROI Placement and Analysis

Agenda subject to change.

Breast Ultrasound Course for Technologists

**16.5 Category A credit &
16.5 SDMS credit**

This course will utilize a combination of lecture sessions and hands-on positioning workshop taught by a team of experienced sonographers, technologists and a physician. Instruction in patient scanning is stressed with hands-on demonstrations using clinical ultrasound scanners, tissue equivalent breast phantoms and live models.



Overview

This course will provide increased knowledge of the technical and clinical aspects of breast ultrasound as well as practical hands-on training of ultrasound imaging of the breast. An overview of the basic principles and techniques utilized in breast ultrasound will be presented. This course will be helpful for mammographers and sonographers who are directly involved in breast imaging. Participants should have an understanding of the basic concepts of mammography. If you are a mammographer looking for training in breast ultrasound or a sonographer wanting to review basic breast imaging skills, this course is for you.

Objectives

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

- ◆ Describe how the basic principles and concepts of ultrasound physics work.
- ◆ Demonstrate basic skills of breast ultrasound scanning.
- ◆ Recognize breast anatomy on ultrasound images.
- ◆ Explain the importance of breast ultrasound in the work-up and management of breast disease.
- ◆ Recognize breast ultrasound artifacts and describe techniques to minimize their occurrence.
- ◆ Identify the important technical factors for optimizing image quality in breast ultrasound.



Course Schedule

Day 1 ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆	
8:00 am	Registration and Orientation
8:30 am	Basic Physics <ul style="list-style-type: none">◆ Ultrasound in tissue◆ Transducers and image formation
9:50 am	Informal Discussion and Break
10:00 am	Basic Physics (continued)
12:00 pm	Lunch (on your own)
1:00 pm	Breast Anatomy and Physiology <ul style="list-style-type: none">◆ Normal breast, nodes, muscle & vasculature◆ Abnormal anatomy
2:40 pm	Informal Discussion and Break
2:50 pm	Other Modalities <ul style="list-style-type: none">Breast MRI◆ Nuclear Medicine/Sentinel Nodes/PET Scans◆ Types of Biopsy
4:30 pm	Adjourn for the Day
Day 2 ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆	
8:30 am	Instrumentation & Technique <ul style="list-style-type: none">System setup/transducers◆ Grayscale image representation/Color Doppler◆ Physical exam/Sonographic exam◆ Artifacts
10:00 am	Informal Discussion and Break
10:10 am	Benign & Malignant Features & Lesions
12:00 pm	Lunch (on your own)
1:00 pm	Benign & Malignant Features & Lesions
2:30 pm	Informal Discussion and Break
2:40 pm	Pathology
4:30 pm	Adjourn for the Day
Day 3 ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆	
8:30 am	Hands-on Scanning <ul style="list-style-type: none">◆ Instruction and critique using live models
12:30 pm	Course Adjourns
	Agenda subject to change.

Registration

To register for this seminar, go to www.mtmi.net or complete the registration form below and

- ♦ send it with your tuition to MTMI, or
- ♦ call (800) 765-6864 using MasterCard or Visa, or
- ♦ fax the form to (262) 717-9171 with credit card information

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.

Tax Deduction: The expense of continuing education, when taken to maintain and improve professional skills, is tax deductible. Please contact your accountant for details.

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.

Location and.....Accommodations

<p>MTMI Education Center 20900 Swenson Dr., Suite 650 Waukesha, WI 53186</p>	<p>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.)</p>	<p>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.</p>
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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: _____ confirmation of registration sent to this e-mail address-PRINT CLEARLY

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

Please enclose payment to **MTMI**:

\$42.50 Yes! Enroll me in an annual MTMI membership. (*Membership discount effective immediately.*)

Bone Densitometry Course - 3 days

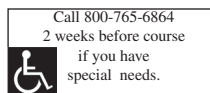
Mammography Course - 5 days (includes 8.5 hours digital mammography)

Mammography Course - 4 days (includes 8.5 hours digital mammography)

Mammography Course - 3 days

Mammography Clinical Training

Breast Ultrasound 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.

Tuition

Bone Densitometry Course

3-day course - 20 hours of Category A credit.

<u>Early Price</u>	<u>Within 21 Days</u>
\$650	\$695

Mammography Course

<u>Early Price</u>	<u>Within 21 Days</u>
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5 day course - \$975	\$1025
40 hours of Cat. A credit includes 8.5 Digital	
4 day course - \$920	\$945
36 hours of Cat. A credit includes 8.5 Digital	
3 day course - \$725	\$775
27.5 hours of Cat. A credit	

***Clinical Training**: \$550 (25 supervised exams)

*Contact **MTMI** for details

Breast Ultrasound Course

2 1/2 day course - 16.5 SDMS credit as well as 16.5 Category A credit.

<u>Early Price</u>	<u>Within 21 Days</u>
\$750	\$795

Available Discounts:

- MTMI Members** may take an additional \$20 discount
- Institutional Members** take an additional \$20 discount.

MTMI

Medical Technology Management Institute

20900 Swenson Dr., Suite 650
Waukesha, WI 53186

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

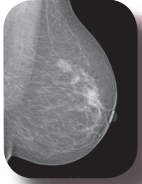
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Cross Training Courses

**Bone Densitometry
Mammography
Breast Ultrasound**

held in

**Milwaukee
(Waukesha), WI**



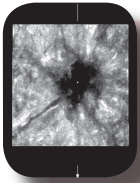
Mammography Course

February 3-7
April 21-25
June 23-27
September 22-26
November 10-14

- ✓ Learn the latest MQSA requirements.
- ✓ Learn basic and advanced positioning skills.
- ✓ Learn how various physical characteristics of the x-ray tube affect mammographic imaging.
- ✓ Learn mammographic quality control testing procedures per MQSA guidelines.

Credits

5 Day course -40 Cat. A CE
(includes 8.5 hours of
Digital Mammography)
4 Day course -36 Cat. A CE
(includes 8.5 hours of
Digital Mammography)
3 Day course -27.5 Cat. A CE
(short course)



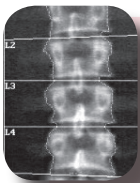
Breast Ultrasound

March 13-15
May 15-17
August 21-23
October 2-4

- ✓ Learn basic ultrasound physics.
- ✓ Learn basic skills of scanning.
- ✓ Learn breast anatomy on ultrasound images.
- ✓ Learn technical factors to optimize image quality.

Credits

16.5 SDMS CE
16.5 Category A CE



Bone Densitometry

March 19-21
September 10-12

- ✓ Learn pathology & physiology of osteoporosis.
- ✓ Learn the significance of T & Z scores.
- ✓ Learn about pencil and fan beams.
- ✓ Learn about the principles of photon absorptiometry.

Credits

20 Category A CE