

One Day Seminar

Digital Breast Tomosynthesis Imaging

Fulfills 8 hour
training
requirement
of MQSA

Instructor:

Jerry Thomas, MS, FAAPM, DABR, CHP, DABSNM

San Francisco, CA on March 17, 2012

Orlando, FL on April 21, 2012

Denver, CO on May 19, 2012

New York, NY on June 23, 2012

Detroit, MI on September 15, 2012

Dallas, TX on September 29, 2012

Seattle, WA on October 27, 2012

Richmond, VA on November 3, 2012



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MTMI

Medical Technology
Management Institute

Making Technology Work for You!

About the Seminar

Digital Breast Tomosynthesis (DBT) is a new application of digital mammography recently approved by the FDA. DBT provides thin cross sectional images through the volume of the breast. This prevents overlying structures from obscuring breast masses and prevents intersecting normal structures from being falsely identified as cancer. DBT is expected to increase the reliability of detecting abnormal structures while reducing patient call backs. This seminar will review the technology of DBT, its practical application in the clinical setting and changes in required quality control procedures. DBT is considered a new modality under MQSA which requires all personnel to receive 8 hours of training before participating in clinical services.

This seminar will fulfill your 8 hours of digital breast tomosynthesis training as required by MQSA.

Who Should Attend

- mammography technologists
- supervisors
- MQSA inspectors
- vendor personnel

Educational Objectives

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

- Understand the clinical advantages offered by DBT imaging in screening and diagnosis of breast cancer.
- Explain how DBT images are made.
- Describe the quality control tests required by the technologist and physicist.
- Understand how DBT imaging impacts accreditation.
- Describe the complementary roles of 2D and 3D breast imaging in detecting cancer and reducing call backs.
- Understand how DBT compares with other advanced digital imaging applications.

About the Instructor

Jerry A. Thomas, MS, DABR, CHP, DABSNM



Diagnostic Medical Physicist
Radiation Safety Officer
Via Christi Regional
Medical Center,
Wichita, KS

Jerry A. Thomas is a diagnostic medical physicist at the Via Christi Regional Medical Center (VCRMC) in Wichita, KS. Jerry holds a Master of Science degree in Radiation Biophysics from the University of Kansas and is board certified in Radiological Physics, Health Physics and Nuclear Medicine. He has more than 30 years' experience in teaching, clinical service and research in many areas of medical imaging including digital breast tomosynthesis. Jerry also has extensive experience teaching technologists and students on medical imaging topics. MTMI is proud to have Jerry serve as an instructor for this important new diagnostic capability and share his knowledge with you.

register at

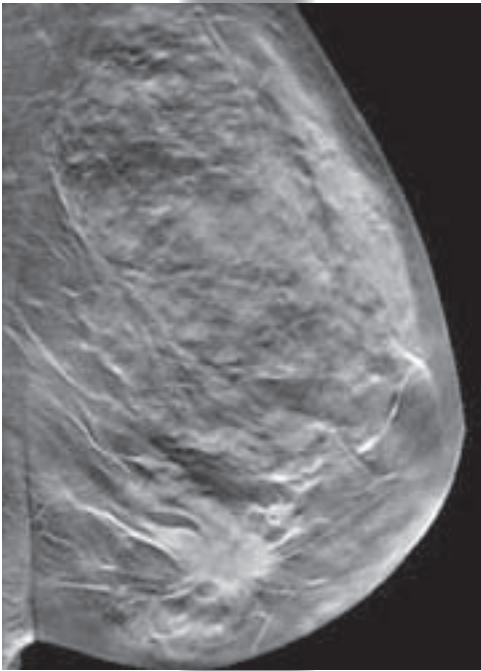
www.mtmi.net

or call

1-800-765-MTMI(6864)

Continuing Education Credit

This seminar provides **8 hours of Category A** continuing education credit for radiologic technologists recognized by the ARRT and various licensure states. It also provides **8 hours** of training in digital breast tomosynthesis imaging as **required by MQSA** before doing clinical patients. A certificate of attendance will be provided for each individual upon completion of the course. Attendees must attend the entire course to receive full credit.



*Seminar Schedule

8:00 am

Registration and Coffee

8:30 am

Clinical Need for Digital Breast Tomosynthesis (DBT) Imaging

- Why is tomosynthesis needed?
- Potential benefits of DBT
- Clinical studies
 - normal
 - calcifications
 - speculated lesions

9:30 am

Technical Approach to Tomosynthesis

- How tomosynthesis images are made
 - principles of operation
 - slice vs. slab
- 2D vs. 3D imaging of the breast
 - advantages and difficulties
- Machine design and differences in technical approaches
- Image display

10:20 am

Informal Discussion and Break

10:30 am

Digital Detector Technology

- Types of digital detectors
- How does the detector type affect the approach to DBT?
- System technical details - requirements
 - target
 - dose
 - exposure time
 - compression

11:15 am

Preparing for the Transition from 2D to 3D Imaging of the Breast

11:35 am

User Interface for Quality Control

- Navigation through the user interface
- System components
 - similarities/differences between 2D/3D

12:05 pm

Lunch (on your own)

1:05 pm

Quality Control Testing in Tomosynthesis

- Technologist QC
- Medical physicist tests
- Similarities and differences between 2D & 3D

2:35 pm

Quality Control of Tomosynthesis Display

- Workstation
- Printer

3:05 pm

Informal Discussion and Break

3:15 pm

Accreditation of DBT

- Role of the ACR & states
- Role of the FDA
- Training requirements (techs, MPs, MDs)
- Experience requirements (techs, MPs, MDs)

3:45 pm

Advanced Applications in Digital Imaging

- Other areas of research that may improve sensitivity and specificity
- CAD approaches to 3D imaging
- Role of MRI in breast imaging
- Dual Energy Imaging of the breast
- Breast CT
- Radioisotope Imaging of the breast
 - PET
 - SPECT
 - Single detector






4:30 pm

Adjourn

** schedule subject to change*

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 \$30 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 \$30 processing fee. No refunds will be made after the seminar.

Registration Discounts:

Group discounts - must register at the same time:

- 3-5 attendees receive a 5% discount on each registration
- 6+ attendees receive a 10% discount on each registration

The discount is not applicable if the tuition is paid by purchase order. For student rates, contact MTMI. Members of MTMI receive a 10% discount. Only one discount may be applied except for Institutional Members.

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 services
- member newsletter
- web access to MTMI records
- yearly transcripts
- special benefits throughout the year exclusive to members

Joining MTMI with this registration qualifies you for the member price. Check the membership box on the registration form or call MTMI. Annual membership dues for technologists are \$39. **Seminar discount effective immediately.**

Location and Accommodations

Specific location and accommodation information will be listed on our website as soon as arrangements have been made.

Please go to:

www.mtmi.net

or call

800-765-6864

• • • **Register early and SAVE!** • • •

Registration Form Digital Breast Tomosynthesis Imaging date/city: _____

Name: _____ degree/title _____

Home Address _____ City _____

State: _____ Zip code: _____ *e-mail _____

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

Day phone () _____ Eve. phone () _____ FAX () _____

Credit Card Number _____ MasterCard Visa Check

Expiration Date _____ Signature _____

Please enclose payment by credit card or check made out to MTMI:

\$39 Yes! Enroll me in an Annual **MTMI** membership (discount effective immediately)

Regular price: \$195 (**MTMI** members \$175) - within 14 days of seminar

Advance price: \$185 (**MTMI** members \$166) - 14 days before seminar

At-the-door price: \$205 (**MTMI** members \$185)

Group discount: 3-5 attendees (5%) (must register together)

6 or more attendees (10%) (must register together)

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

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special needs.