



Hands-on Digital Breast Tomosynthesis Training Workshop

MTMI

20900 Swenson Dr. #650
Waukesha, WI 53186

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Workshop comprised of two parts:

**Part One: Two 2 hour online Webinars
held on 3/6/12 and 3/8/12**

and

**Part Two: 4 hour hands-on, on-site session
(choice of AM or PM sessions) on 3/23/12 at
The David Ellenbogen Center for Health Sciences
in Bedford, MA**

Hands-on Digital Breast Tomosynthesis Training Workshop

MTMI

Medical Technology
Management Institute

Making Technology Work for You!



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(choice of AM or PM sessions) on 3/23/12 at
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Limited Enrollment - Register Early!

About the Workshop

In conventional and digital projection mammography the super-position of structures and imaging of dense breast tissue present significant challenges to producing sensitive and accurate diagnoses of breast cancer. These problems result in unnecessary biopsies and repeat examinations that cause patient anxiety and additional expense. Digital breast tomosynthesis (DBT) provides planar images of the breast without over and under lying tissue thus reducing false positives and suspicious structures and improving diagnostic accuracy. One DBT unit has been approved by the FDA for sale in the US market. Under MQSA rules, DBT is considered a new modality and therefore requires 8 hours of training before participation in the surveying and QC of these units in the field. This 2 part workshop is designed to provide hands-on training of DBT to satisfy this requirement. The lecture portion of the workshop (Part 1) will be delivered by live interactive webinars (two, 2 hour sessions) over the internet and the hands-on on-site training (Part 2) will be offered at the Ellenbogen Center for Health Science Education at Hologic in Bedford Massachusetts.

Who Should Attend

This combined webinar and hands-on on-site training is designed primarily for medical physicists to satisfy the 8 hour training required for new modalities before performing unit surveys and QC specified by the MQSA rules. Others interested in obtaining this training would include medical physics graduate students and residents, physics assistants, state and federal mammography facility inspectors and some technically oriented mammography technologists interested in learning QC procedures for tomosynthesis units.

Workshop Format

This workshop is comprised two parts. The first consists of two, 2 hour Webinar sessions held on Tuesday, 3/6/12 and Thursday, 3/8/12. Log into the webinar via the internet, on your computer and participate in real time. Each webinar session will be held from 7:00 pm to 9:00 pm Central time. You will be able to ask questions during this session which will be answered live.

The second portion of the workshop is a 4 hour hands-on, on-site session held on March 23, 2012 at The David Ellenbogen Center for Health Sciences in Bedford, MA. You will have a choice of attending *either* the AM session, which runs from 8:00 am to 12:15 pm, or the PM session, which runs from 1:00 pm to 5:15 pm. **Indicate your preference of attending the morning or afternoon hands-on training session on the registration form.** Registrants will be assigned to these sessions based on the order received. Travel plans should not be made until your session assignment has been confirmed.

Successfully completing **BOTH** parts of this workshop (two - 2 hour webinars and 4 hour hands-on training) provides the 8 hours of training required by MQSA to be qualified to survey units with tomosynthesis capability.

Continuing Education Credit

An application to CAMPEP for up to 8 hours of Medical Physics Continuing Education Credit (MPCEC) for qualified medical physicists, has been filed. A certificate documenting attendance will be provided to all participants. Attendees must attend both webinar sessions, 1 and 2, and the Hands-on session to completion to meet the 8 hour MQSA requirement. Please make travel plans accordingly. Approval for Category A credit for radiologic technologists has been requested.

Educational Objectives

Webinar Sessions

By participating in these Webinar sessions attendees will:

- Understand the technique for collecting tomosynthesis data.
- Appreciate the unit and detector performance requirements.
- Have reviewed the clinical advantages of DBT.
- Understand the role of DBT in screening and diagnostic applications.
- Understand the factors affecting in plane and depth resolution of DBT.
- Have reviewed the FDA approved QC procedures for the Hologic DBT unit.

Hands-on On-Site Session

By participating in this session attendees will:

- Have reviewed the operation of the Hologic DBT unit for QC tests.
- Have participated in performing the approved QC tests of the Hologic DBT unit.
- Understand the data reporting procedures for the QC tests.
- Have insight into interpretation of QC test data.

Acknowledgements

We gratefully acknowledge the support of Hologic for the use of The David Ellenbogen Center for Health Sciences Education and the units housed there.

Faculty

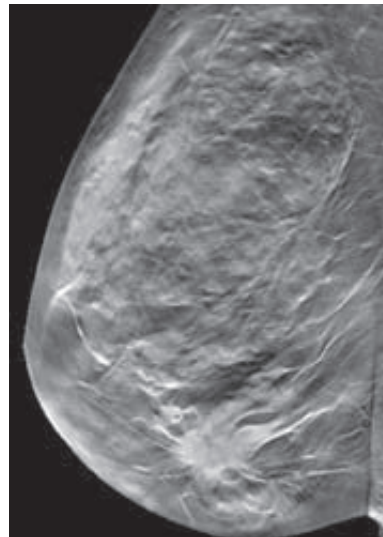
Jerry A. Thomas, MS, DABR, CHP, DABSNM
Via Christi Regional Medical Center

James M. O'Brien Jr., MMSc
Senior Medical Physicist
Diagnostic Physics

**Part One:
2 WEBINAR
Sessions**

***Two Part Workshop Schedule**

Tues. 3/6/12 and Thurs 3/8/12
7:00 pm - 9:00 pm Central Time
 8:00 pm - 10:00 pm Eastern Time
 4:00 pm - 6:00 pm Mountain Time
 3:00 pm - 5:00 pm Pacific Time



Webinar Session 1 held on 3/6/12

Introduction to Tomosynthesis

- Review of detector technology
- Collecting the tomosynthesis data
- Approaches by various vendors
- Detector performance requirements
- Advantages of tomosynthesis

Clinical Role of Tomosynthesis

- Indications for use of tomosynthesis imaging
- Screening vs. diagnostic applications
- Comparison to alternative imaging modalities
- Reading utility for the radiologist
- Case studies: normal and pathology

Technical Considerations for Tomosynthesis

- Image formation & reconstruction
- Factors affecting in plane resolution
- Factors affecting depth resolution
- Artifacts in tomosynthesis images
- Image composition & display approaches

Webinar Session 2 held on 3/8/12

Accreditation of Breast Tomosynthesis Units

QC Procedures for Selenia Dimensions 2D/3D Unit

- Review of procedures from QC manual
- Similarities and differences to 2D testing

**Part Two:
Hands-on
On-site
Session**

3/23/12 in Bedford, MA

**AM
or PM session** **Participants attend either AM or
PM session (not both)**

**7:30 AM
or 12:30 PM** **Registration**

**8:00 AM
or 1:00 PM** **Introduction to QC of the Hologic
Breast Tomosynthesis Unit**

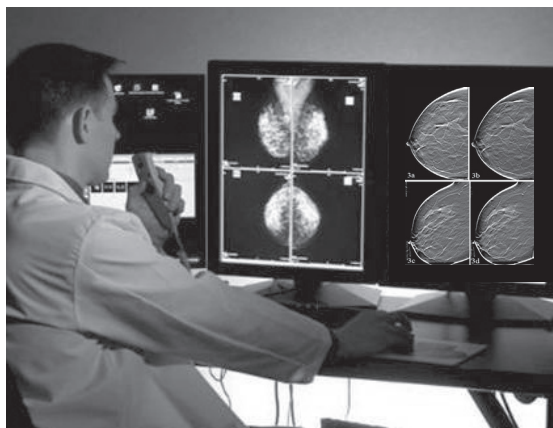
**8:45 AM
or 1:45 PM** **LAB A - Hands-on Demonstration
of Data Collection Procedures for
Half of QC Tests**

**10:15 AM
or 3:15 PM** **Informal Discussion and Break**

**10:30 AM
or 3:30 PM** **LAB B - Hands-on Demonstration
of Data Collection Procedures for
Half of QC Tests**

**12:00 noon
or 5:00 PM** **Questions and Answers with
Faculty**






**12:15PM
or 5:15 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 \$50 administration fee, will be granted for cancellations received prior to 10 days before the course. Cancellations received within 10 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.

Membership

Membership in the Medical Technology Management Institute includes:

- ◆ discounts on **MTMI** services
 - ◆ member newsletter
 - ◆ web access to replace certificates
 - ◆ yearly transcripts
 - ◆ 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 physicists is *\$65, technologists *\$39. Discount effective immediately. Also available, discounted **Group** Membership.

Registration Form:

Hands-on Digital Breast Tomosynthesis Training Workshop Webinars - 3/6 and 3/8 & Course -3/23/12 in Bedford, MA

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

Name: _____ degree/title: _____

Home Address: _____ City: _____

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

Day phone () _____ Eve. phone () _____

I would like to register for:	Regular	MTMI member
<input type="checkbox"/> BOTH Webinar & *Hands-on On-site Session, *I prefer: <input type="checkbox"/> AM session <input type="checkbox"/> PM session <input type="checkbox"/> Either	\$595	\$565
<input type="checkbox"/> ONLY 1st Webinar Session on 3/6/12 (2 hours)	\$150	\$135
<input type="checkbox"/> ONLY 2nd Webinar Session on 3/8/12 (2 hours)	\$150	\$135
<input type="checkbox"/> ONLY 4 hour *Hands-on On-Site Session *I prefer: <input type="checkbox"/> AM session <input type="checkbox"/> PM session <input type="checkbox"/> Either	\$395	\$365
<input type="checkbox"/> MTMI Membership (discount effective immediately)		\$65/\$39

Total enclosed:
\$ _____



Credit Card Number: _____ Master Card Visa Amex

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.

Location & Accommodations



*Limited
enrollment
of the
Hands-on
sessions.*

Register early!

Meeting Location:

The David Ellenbogen Center
35 Crosby Dr. - East Entrance
Bedford, MA 01730

Hotel Accommodations:

Doubletree Hotel
44 Middlesex Turnpike
Bedford, MA 01730
781-275-5500 www.doubletree.com

Room Rate: \$95

Make reservations by 3/1/12 and identify yourself as an MTMI attendee.

Attendee must make own arrangements with hotel shuttle for transportation to and from meeting location.