

Mastering^{the} Art^{of} Digital Radiography

Instructor:
Dennis Bowman, RT(R)

Kansas City, MO - March 31, 2012
New York, NY - May 19, 2012
New Orleans, LA - June 16, 2012
Indianapolis, IN - July 14, 2012
Montreal, QC - September 22, 2012

MTMI

Medical Technology
Management Institute

Making Technology Work for You!

About this Seminar

Most digital radiography seminars discuss how the equipment works and the physics behind it. This seminar is designed to give technologists practical knowledge to help them use their CR and DR equipment. With over 250 images the presentation will feel like a “hands-on” workshop.

This seminar will confront the universal problems and concerns with digital radiography. You will learn why you should be using 15-20 kVp higher and one third the mAs required for film/screen. Little training exists to provide an understanding of the use of magnification modes and the Dose Exposure Index (DEI) number. These will be discussed throughout the seminar.

Using film/screen, radiographers once worried about a film being too dark or light, now they need to be concerned about acceptable quantum mottle and over radiating patients. This will lead to a better understanding of how to utilize this new technology to improve the art and science of radiography.

Educational Objectives

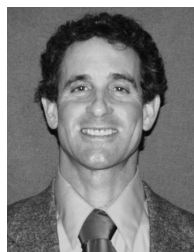
*Upon completion of this seminar
you will be able to:*

- Select optimum technical factors for digital images, consistent with ALARA.
- Describe at least three different ways to critique a digital image.
- Discuss the concept of acceptable mottle.
- Identify what is needed to change the technique chart for digital systems.
- Describe why a Ferlic Filter is beneficial on a cross table lateral hip view.
- Explain how to set up a tube at the proper angle for a portable chest.
- Explain the legal implications of not marking images, post processing, collimation and changing algorithms.

Who Should Attend

- Technologists
- Students
- Educators
- Vendor Personnel

Instructor



Dennis Bowman, (RT)R

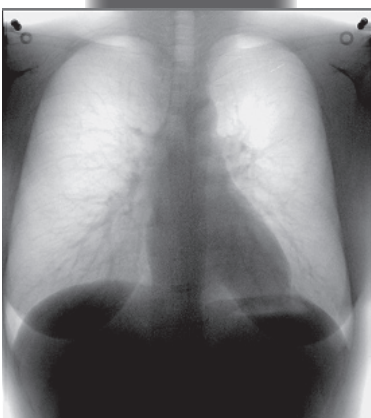
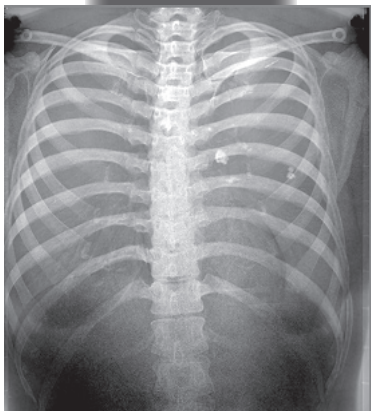
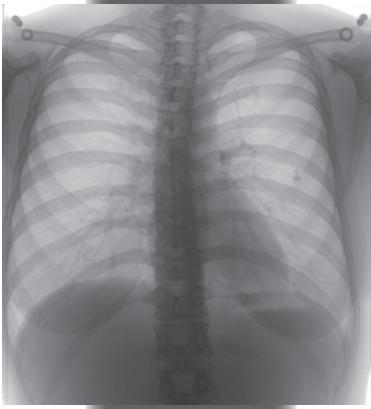
Dennis has been an active radiologic technologist for over 30 years. He has been employed as a Staff Technologist at the Community Hospital of the Monterey Peninsula in Monterey, California since 1990 as well as being the Clinical Instructor for the Cabrillo College Radiology Program. With a digital dosimeter and an array of body phantoms, Dennis has been researching, studying and putting into practice, digital techniques. As a “shooting tech”, Dennis fully understands all the problems techs encounter and is able to help them solve those problems with humor.

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Continuing Education Credit

This program provides 8 hours of Category A continuing education credit recognized by the ARRT for radiologic technologists, and credit from various licensure states. A certificate of attendance will be provided for each individual upon completion of the seminar. All attendees must attend the entire seminar to receive full credit.








Seminar Schedule

- 8:00 am **Registration and Coffee**
- 8:30 am **Introduction to Digital Radiography**
- What is the new digital paradigm?
 - differences between indirect, direct & film/screen
 - Corrupted dose exposure numbers (DE#'s)
 - Ferlic Filter explanation, photos and images
 - The first 6 months
- 10:10 am **Informal Discussion and Break**
- 10:20 am **Advanced Principles in Digital Radiography**
- Optimum kVp's
 - How do you critique a digital image?
 - Automatic rescaling
 - mAs dose creep
- 11:10 am **Art of Techniques and the AEC**
- AEC technique strategy
 - Densities (film & digital)
 - Changing techniques for digital images
 - Techniques for portables
 - Extra technique - *good things to know*
- 12:00 pm **Lunch (on your own)**
- 1:00 pm **Adaptive Radiography: Tips and Tricks**
- The coconut experiment
 - Ribs
 - Trauma oblique C-spine
 - Prone bilateral sunrise
 - Wide abdomen patients
 - Portable chest x-rays
- 2:50 pm **Extras**
- Level & windowing in CR & the PACS stations
- 2:40 pm **Informal Discussion and Break**
- 3:40 pm **Analyzing the Mysteries of Digital Radiography**
- Universal CR technique chart
 - Making your own technique charts
 - Reducing patient dose
 - DUKE chest phantom images
- 4:30 pm **Adjourn**

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.

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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 are \$39. Discount effective immediately.

Location & 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**

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



Register early and SAVE!

Registration Form *Mastering the Art of Digital Radiography*
Please Print Clearly - This is how your name will appear on your certificate.

city/date: _____

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 out to **MTMI**

Registration Fees	Seminars in USA	Seminars in Canada
more than 14 days before	<input type="checkbox"/> \$179 <input type="checkbox"/> \$161 (member price)	<input type="checkbox"/> \$219CAD <input type="checkbox"/> \$199CAD (member price)
within 14 days	<input type="checkbox"/> \$189 <input type="checkbox"/> \$171 (member price)	<input type="checkbox"/> \$239CAD <input type="checkbox"/> \$219CAD (member price)
at-the-door	<input type="checkbox"/> \$199 <input type="checkbox"/> \$179 (member price)	<input type="checkbox"/> \$239CAD <input type="checkbox"/> \$219CAD (member price)
MTMI membership	<input type="checkbox"/> \$39 (discount effective now)	

Total enclosed:

\$ _____

Credit Card Number _____ Master Card Visa Check

Expiration Date: _____ Signature _____

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