

One Day Seminar

Optimizing CT Protocols and Dose

Instructor:

Christine Eckenrod RT(R)(CT)(MR)

Silver Spring, MD on February 18, 2012

Cleveland, OH on March 17, 2012

Charlotte, NC on April 21, 2012

Richmond, VA on September 22, 2012

Phoenix, AZ on October 20, 2012

Milwaukee, WI on November 17, 2012

MTMI

Medical Technology
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Making Technology Work for You!

About the Seminar

In the past several years, significant advances in the technology of Computed Tomography (CT) have occurred. These developments have driven an expansion in the clinical applications of CT and an increase in the number of CT scanners. Opportunities for CT technologists have grown as a result. Never has the importance of CT dose control been so prevalent in the public as it is today. The competent CT technologist must have the most current information in order to provide quality patient care.

Who Should Attend

- CT Technologists
- Radiologic Technologists
- Students
- Educators

Also those interested in:

- Updating and renewing CT skills
- Starting “on-the-job” training in CT
- Radiation safety and reducing patient dose

Educational Objectives

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

- Understand the evolution of the technology involved in the acquisition of CT images.
- Discuss the technologist’s role in radiation education.
- Discuss ALARA and Dose Creep.
- Discuss volume acquisition scanning - pros and cons.
- Appreciate radiation safety and dose considerations needed to conduct CT examinations safely.
- Discuss protocol optimization/dose - using parameters to control dose.
- Discuss the various applications of multi-detector scanning.
- Discuss the optimization of formatted images.

Continuing Education Credit

Each seminar provides 8 hours of Category A continuing education credit for radiologic technologists recognized by the ARRT. A certificate of attendance will be provided for each individual upon completion of each seminar.

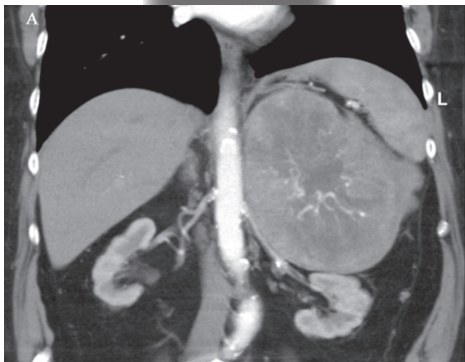
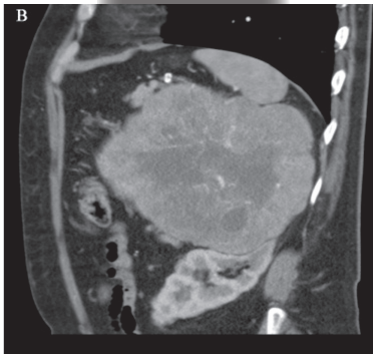
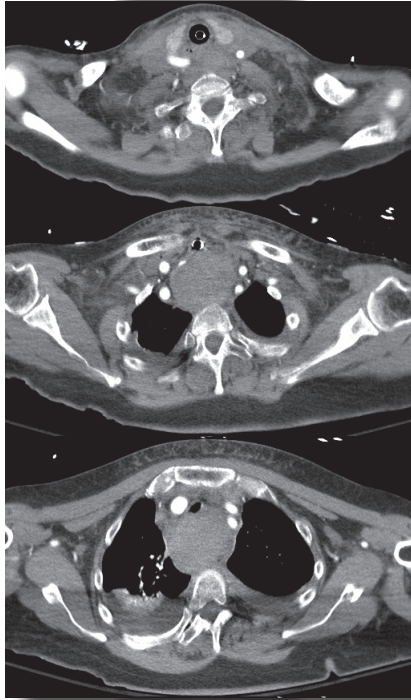
About the Instructor



**Christine Eckenrod,
RT(R)(CT)(MR)**

Christine started her medical imaging career when she graduated from the Altoona Hospital School of Radiologic Technology in 1986. In 1993, she specialized as a CT technologist followed by MRI in 2004. She is currently employed as a CT/MR technologist with Alliance Imaging, INC. She has extensive experience in CT training and protocol development. Christine presents a lighthearted, easy to understand review of all of the basics of CT Scanning while reviewing the content specifications for the ARRT CT registry. You will be sure to enjoy the presentation while learning or refreshing your knowledge in the field of CT Imaging.










Schedule

8:00 am	Registration and Coffee
8:30 am	Evolution of CT Imaging <ul style="list-style-type: none"> • From single slice to dual source • Detector configurations • How slip ring technology changed CT • Volume acquisition scanning - pros and cons
9:15 am	Let's Talk Dose <ul style="list-style-type: none"> • DLP and CTDI • Dose creep • ALARA • What are the vendor's doing to help • Protocol optimization/dose <ul style="list-style-type: none"> - using parameters to control dose • To shield or not to shield
10:00 am	Informal Discussion and Break
10:10 am	In the News <ul style="list-style-type: none"> • Public concerns over dose with CT • Which exams are the culprits • Is more always necessary • The technologists' role in radiation education • Common mistakes and misconceptions
11:00 am	Protocol Development with Sample Protocols
11:30 am	Additional Applications of CT Imaging <ul style="list-style-type: none"> • PET/CT • Radiation therapy planning
12:00 pm	Lunch (on your own)
1:00 pm	Applying Parameters in the Clinical Setting <ul style="list-style-type: none"> • Understanding types of resolution • Parameter choices and how to use them to optimize image quality
2:10 pm	Informal Discussion and Break
2:20 pm	Application of Multi-Detector Scanning <ul style="list-style-type: none"> • Single breath-hold and multi-phase imaging • Trauma imaging • CT Angiography • Virtual imaging • Enterography • Brain Perfusion
3:20 pm	Optimizing Reformatted Images <ul style="list-style-type: none"> • How parameters effect reformats • Planes of anatomy • Optimizing reformats <ul style="list-style-type: none"> - sagittal & coronal - 3D-mip, volume rendered, surface rendered - Curved reformat
4:00 pm	Question and Answer Session
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:

- 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.

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 in the Medical Technology Management Institute includes:

- discounts on **MTMI** services
- web access to **MTMI** records
- special benefits throughout the year exclusive to members
- Check the membership box on the registration form or call **MTMI** at 800-765-6864.
- Seminar discount effective immediately.
- Annual membership dues for technologists are \$39.

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
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Registration Form

Optimizing CT Protocols and Dose

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

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 _____ Master Card Visa Check

Expiration Date _____ Signature _____

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

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

Regular price: \$189(**MTMI** members \$171) - within 14 days of seminar

Advance price: \$179 (**MTMI** members \$161) - 14+ days before seminar

At-the-door price: \$199 (**MTMI** members \$179)

Group discount: 3-5 attendees (5%)

6 or more attendees (10%)

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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2 weeks before the
seminar if you have
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