

Practical Applications for Today's CT Technologist

Instructor:
Kristi Rayman,
BS, RT(R)(M)(CT)(MR)

Albuquerque, NM on March 31, 2012
Dallas, TX on April 14, 2012
Baltimore, MD on October 13, 2012
San Diego, CA on November 3, 2012
Portland, OR on December 1, 2012



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MTMI

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About the Seminar

Computed Tomography has made a huge impact on diagnostic imaging since it was introduced to the medical field some 40 years ago. So much about CT imaging technologies and our clinical environments change rapidly, challenging today's CT technologist to keep up, and keep it fresh. This interactive seminar is designed to help CT techs at any level improve their skills of caring for patients and performing high-quality scans. This seminar will cover communication, preparation, contrast enhancement, managing patient dose, and scanning parameters for the most common exams. Finally, we will spend time learning about different pathologies in clinical situations scanned on a daily basis. This seminar is a great way to learn more about practical applications for today's CT scanning.

Who Should Attend

This seminar will be useful for CT technologists interested in learning more about the practical clinical applications of CT and understanding more about radiation dose and protocols in everyday scanning situations. The seminar will also be helpful for those learning about CT and interested in entering the field. It would be useful for anyone interested in improving their scanning skills and reducing patient dose.

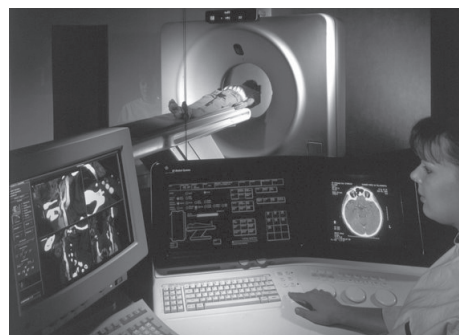
Objectives

At the completion of this seminar, participants will:

- Understand why CT dose is getting so much attention.
- Become familiar with terms and methods used to express radiation dose from CT and how to control it.
- Review the applications and risks of contrast agents used in CT.
- Appreciate the importance of patient communication and exam preparation.
- Have insight into the various protocols used to enhance CT image quality and control radiation dose in various clinical situations.
- Learn how to handle unique cases encountered in CT scanning.

About the Instructor

Kristi Rayman, BS, RT(R)(M)(CT)(MR) is an enthusiastic, creative and passionate educator, mentor and advisor who believes all technologists should aspire to be a strong link in the chain of patient care. She has been working in medical imaging for more than 19 years with experience in outpatient, inpatient and mobile healthcare environments. She has a well rounded career as a multi-modality technologist. She has not only functioned as a hands-on technologist but as department manager and provided staff and community education. Kristi's wide variety of experience contributes to this seminar in ways that you are sure to find useful and enjoyable.



Continuing Education Credit

An application for **8 hours of Category A continuing education credit** recognized by the ARRT for radiologic technologists has been filed. 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

Managing CT Patient Dose

- Radiation and the energy of imaging
- Understanding radiation exposures in medical imaging
 - Why now? CT's overwhelming contribution to patient dose
 - measuring and reporting CT dose
 - dose reduction techniques
- CTDI, DLP, dose creep, ACR, ICRP, Image Gently, Image Wisely
- Pediatric considerations
- Imaging team's role in reducing dose (tech, radiologist, provider)
- Review questions

10:30 am

Informal Discussion and Break

10:40 am

Before We Scan ...

Preparation

- Your scanning environment
- Evaluating requests
- Patient care, education and consents
- Why so many questions? What do the answers mean?

Communication

- Do's and don'ts
- Understanding the meaning of our messages

Contrast Media

- Relevant lab values
- ACR recommendations
- Oral & IV contrast methods
- Positive & negative agents
- Osmolality, viscosity and ionicity
- Cardiovascular anatomy and phases of enhancement
- Factors affecting enhancement
- Allergies & treatments

12:00 pm

Lunch (on your own)

1:00 pm

Protocols / Case Studies - Brain and Sinus CT

- Profile of a stroke
- Types of strokes and their CT appearance
 - Ischemic
 - Hemorrhagic
 - Hypertensive
- Brain CT scanning protocols
- Sinus anatomy and pathology on CT
- Facial bone trauma CT

1:45 pm

Protocols / Case Studies - Thoracic CT

- Common applications for CT evaluation of:
 - routine chest w/o contrast
 - routine chest w/contrast
 - airway
 - chest for pulmonary embolus
- Scanning protocols and timing parameters

2:50 pm

Informal Discussion and Break

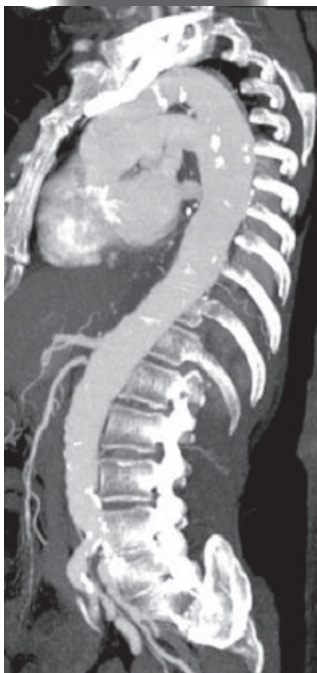
3:00 pm

Protocols / Case Studies - Abdomen and Pelvis CT

- Abdominal pelvic CT evaluation of:
 - appendix
 - liver
 - pancreas
 - abdominal aorta
 - renal system
- Scanning protocols and timing parameters






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:

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

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

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

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