

RAD/IMG 340 8WK

Computed Tomography Applications

I initially designed this 3 credit hour physics course in the fall of 2011 to run spring of 2012.

I was also the instructor for the course (SP 12 8WK2, SP 13 8WK2, SP 14 8WK2).

This document includes screen shots of the overview page, table of contents, the major course projects (2), and modules one and two.

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Welcome to RAD 340
Computed Tomography Applications

Teri Thomas, B.S.R.S., M.Ed. RT(R)(CT)(ARRT)
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 419-266-1332 (voice/text)

Important Links

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Welcome to RAD 340!

PowToon Introduction

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Christina Siegfried
 Mercy College of Ohio
 Distance Education Division
 Phone: 419-251-1796
Christina.Siegfried@MercyCollege.edu

My name is Teri Thomas, BSRS, M.Ed, RT(R)(CT)(ARRT) and I will be guiding you through this course. Before we dive headlong into the world of CT Applications, there are a couple of things we need to do.



First: review your syllabus. Then print a copy. Print several copies. Take one of those copies, fold it into thirds, and stick it in your text book. This single action will give you everything you will need when you find the following thoughts entering your head: "what was I supposed to do?", "when was did this need to be done?", and "seriously, did she really expect me to do that?" That document, the syllabus, is your key to to being successful in this course. And a hard copy is a good thing to have, especially when there are electronic issues.

Second: we can't have a discussion or form a learning community without knowing a little about each other. I know, you done this exercise a thousand times. But some of us (like me) are coming in in the middle of the game. So, humor me and tell it all again through the "Introduce Yourself" link. This is what I want you to do: go to the discussion board and answer the fun question. It doesn't need to be a book, but at least a good 5 sentence paragraph. Include a pic, a video, or a cartoon, or your favorite quote that reflects you (not required, but it does make it interesting). I will oblige with my answer to that all important question, too.

Third: look over the rubrics for the discussion board, weekly assignments, and projects. Do what they say. Better still, exceed the expectations. If it says "use APA format", use APA format. I do not always require an abstract, but sometimes I do. Just follow what the assignment says. Pay attention to word/page limits. Some will be minimum (no more than...), some will be maximum (not to exceed....). Follow all those writing rules in grammar and punctuation that you have learned over the years. I will state, state, and restate expectations pertaining to assignments. If you are still unclear, just ask. My job is all about you.

Fourth: remember, my job is all about you. If you have a problem, ask me. In the syllabus is every way to contact me known to man. You can email, call me, text me, or visit me at the college (1st floor Professional Bulding, Mon.- Fri. 9-5, and the candy jar is always open there).

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- Assignment Information Article Critique ✓
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Module 1: Patient Care in CT

Week of: 03/10/2014 - 03/16/2014

Welcome to your first module in RAD 340 Computed Tomography Applications! This week, your "Introduce Yourself" post is due. During Module One, we will review technical principles, and then we move forward with our study of clinical protocols in the following modules. We will also examine dose considerations and radiation protection issues. As you read your text, think about how you can apply dose in a responsible way in any radiography exam. The article I posted for you to read discusses pediatric dose. We need to be mindful every time we are imaging a child, they have a lifetime to live after the exam and that gives the radiation they have absorbed a much greater opportunity (in years) to do damage. And keeping in mind, if they have had one exam, they are bound to have more, in some cases, many more, adding to their lifetime dose.

Please refer to your syllabus often for more details about your weekly assignments. Don't forget to check your college email regularly and the course news section frequently for important updates and notices.

As always, if you have questions about anything, contact me, either through the virtual office, email, text, or voice. The virtual office is great, because everyone can benefit from the answers to your question. Remember, you are asking a question everyone else has.

Objectives

- Explain technical principles and applications of MSCT
- Distinguish between different dose considerations when selecting CT protocols.
- Describe the fundamental principles of radiation protection used in CT

Module 8: Trauma/Interventional/Pet Begins April 27 3

Add a module...

New Add Existing Activities

- Introduce Yourself ✓
Due Mar 16, 2014 11:59 PM
- Readings and Presentations ✓
- Module 1 Quiz ✓
Due Mar 16, 2014 11:59 PM
- Weekly Reflection ✓
Due Mar 16, 2014 11:59 PM

Module 2: The Head

Starts Mar 16, 2014 12:01 AM

Week of: 03/17/2014 - 03/23/2014

This week, we will begin our study of CT protocols by examining protocols for the brain. As we progress through this course we will start with the most frequently performed exams presented clinically. By far the most common exams in CT are brain studies followed closely by the abdomen.


Fair warning: please remember that your Weekly Quizzes can cover content from the Chapter Reading, Article of the Week, lectures and videos presented this week. It's all about building connections, one of the many factors that reside under the umbrella of critical thinking.


Objectives

- Describe the clinical indications and related pathology for routine CT exams of the brain.
- Explain patient preparation and positioning for routine CT exams of the brain.
- Define recommended scan parameters for routine CT exams of the brain.
- Explain patient care concerns for routine CT exams of the brain.


New Add Existing Activities


- Readings and Presentations ✓
- Module 2 Discussion ✓

 **Module 2 Quiz** ▼




⌚ Due Mar 23, 2014 11:59 PM

 **Weekly Reflection** ▼



⌚ Due Mar 23, 2014 11:59 PM

 **Module 3: Abdomen/Pelvis** ▼

⌚ Starts Mar 23, 2014 12:01 AM

Week of: 03/24/2014 - 03/30/2014


This week we study protocols for the abdomen. Please keep in mind that all the protocols we will study throughout this course may differ from local clinical preference. When *working* in CT always defer to the protocols developed for your facility. But for our class purposes, the text and lectures offer a good basis of what is required in the clinic.


To avoid a deduction of points, remember to have your Article Summary posted by Thursday at 11:59 PM, with your Classmate Comments due by Sunday. See syllabus for word count and additional requirements. Don't forget your Article Critique will be due at the end of Module 4. That would make this a fantastic week to choose your article, if you haven't already done so. Maybe even read it. Be careful, because time has this way of slipping away....


Objectives


- Describe the clinical indications and related pathology for routine CT exams of the abdomen.
- Explain patient preparation and positioning for routine CT exams of the abdomen.
- Define recommended scan parameters for routine CT exams of the abdomen.
- Explain patient care concerns for routine CT exams of the abdomen.

New Add Existing Activities


 **Readings and Presentations** ▼




 **Module 3 Discussion** ▼





⌚ Due Mar 30, 2014 11:59 PM

 **Module 3 Quiz** ▼




⌚ Due Mar 30, 2014 11:59 PM

 **Weekly Reflection** ▼



⌚ Due Mar 30, 2014 11:59 PM

 **Module 4: The Chest** ▼

⌚ Starts Mar 30, 2014 12:01 AM

Week of: 03/31/2014 - 04/06/2014

With this week's module, we will be examining protocols for the chest. For the CT technologist, exams of the chest can be the most difficult because of the critical timing required between image acquisition and peak contrast enhancement.


This is the week your Article Critique is due Sunday at 11:59 PM. Remember what I told you about the syllabus and all rubrics in week one? Print out the Article Critique Rubric and the writing rubric (in your syllabus). Use them as a check list. I do. That's how I calculate your grade. So, if you follow critique guidelines when writing your paper, you will avoid unnecessary point deductions. APA format is required. If you are unsure of proper citing and reference page formatting, use the OWL website. See the syllabus and critique guidelines download for more information.


Also this is Midterm week: 50 multiple choice questions. Like all quizzes, exams are open note, open book. But they are not a group project, so you must do this alone.


Objectives


- Describe the clinical indications and related pathology for routine CT exams of the chest.
- Explain patient preparation and positioning for routine CT exams of the chest.
- Define recommended scan parameters for routine CT exams of the chest.
- Explain patient care concerns for routine CT exams of the chest.

New Add Existing Activities


 **Readings and Presentations** ▼




 **DUE: Article Critique** ▼



⌚ Due Apr 6, 2014 11:59 PM

 **Module 4 Discussion** ▼



⌚ Due Apr 6, 2014 11:59 PM

Midterm Exam ✓
Due Apr 6, 2014 11:59 PM
Weekly Reflection ✓
Due Apr 6, 2014 11:59 PM

Module 5: The Heart

Starts Apr 6, 2014 12:01 AM

Week of: 04/07/2014 - 04/13/2014

This week, we will be examining heart imaging protocols. These protocols will include:

- calcium screening
- coronary imaging
- functional cardiac imaging
- bypass imaging
- stents
- high heart rate imaging

While there was some discussion on the heart in the previous module, as you can see, the entire emphasis is centered on the heart. Remember, exams of the chest can be the most difficult because of the critical timing required between image acquisition and peak contrast enhancement.

This week, you need to submit the topic of your Media Project to the dropbox. And here is your Rubric to follow. Print it out and use as your checklist while constructing your project.

And this is a fine time to collect your thoughts about the upcoming Final Exam. I know it is 3 weeks away, but if there are any of you out there thinking about sitting for the CT registry, this would be an opportunity to get your study materials assembled. Just like the radiography registry, you will select the **best possible answer** on the CT registry. Here is a study outline for you that advises you of the content and approximate number questions in each category:

CT Registry Study Guide Outline

I found it helpful to look up every point and write down the ones I was not solid on. Personally, I am not a fan of flash cards, so I used a legal pad to write out the explanations. It worked very well for me. I know flash cards work well for others, so do study groups, reading, watching videos, and the like. Also, do not forget about Study Blue As always, if you need anything let me know.

Objectives

- Describe the clinical indications and related pathology for routine CT exams of the heart.
- Explain patient preparation and positioning for routine CT exams of the heart.
- Define recommended scan parameters for routine CT exams of the heart.
- Explain patient care concerns for routine CT exams of the heart.

New Add Existing Activities

Readings and Presentations ✓
DUE: Media Project Topic Submission ✓
Due Apr 13, 2014 11:59 PM
Module 5 Discussion ✓
Due Apr 13, 2014 11:59 PM
Module 5 Quiz ✓
Due Apr 13, 2014 11:59 PM
Weekly Reflection ✓
Due Apr 13, 2014 11:59 PM

Module 6: The Neck

Starts Apr 13, 2014 12:01 AM

Week of: 04/14/2014 - 04/20/2014

This week, we will be examining neck imaging protocols. These protocols will include:

- Sinuses
- Facial bones imaging
- Nasopharynx, oropharynx and oral cavity
- MDCT of the hypopharynx and larynx

This is a pretty short chapter, but don't let it fool you. It is important information on common and seldom seen exams in CT. Beside, it frees up time for you to work on your Media Project! Here is the Grading Rubric for the project. Print it out and keep at hand. It's your life preserver!

Objectives

- Describe the clinical indications and related pathology for routine CT exams of the neck.
- Explain patient preparation and positioning for routine CT exams of the neck.
- Define recommended scan parameters for routine CT exams of the neck.
- Explain patient care concerns for routine CT exams of the chest.

New Add Existing Activities

- Readings and Presentations ✓
- Module 6 Discussion ✓
 - Due Apr 21, 2014 11:59 PM
- Module 6 Quiz ✓
 - Due Apr 21, 2014 11:59 PM
- Weekly Refelction ✓
 - Due Apr 21, 2014 11:59 PM

Module 7: The Musculoskeletal System

Starts Apr 20, 2014 12:01 AM

Week of: 04/21/2014 - 04/27/2014

This week you will be learning about the imaging protocols for musculoskeletal imaging, including:

- cervical, thoracic & lumbar spine imaging
- Upper extremities (shoulder, elbow, wrist, hand imaging)
- Lower extremities (pelvis, knee, ankle, foot imaging)

You will also be taking a look at MPR and contrast material used in musculoskeletal imaging...
and your Media Project is due Sunday.

Objectives

- Describe the clinical indications and related pathology for routine CT exams of the musculoskeletal system.
- Explain patient preparation and positioning for routine CT exams of the musculoskeletal system.
- Define recommended scan parameters for routine CT exams of the musculoskeletal system.
- Explain patient care concerns for routine CT exams of the musculoskeletal system.

New Add Existing Activities

- Readings and Presentations ✓
- Module 7 Discussion ✓
 - Due Apr 27, 2014 11:59 PM
- DUE: Media Project ✓
 - Due Apr 27, 2014 11:59 PM
- Module 7 Quiz ✓
 - Due Apr 27, 2014 11:59 PM
- Weekly Reflection ✓
 - Due Apr 27, 2014 11:59 PM

End of Course Evaluation - Take before opening Module 8

Starts Apr 27, 2014 12:00 AM

New Add Existing Activities

- 14-SP RAD-340-W1 8wk2 (Thomas) End of Course Evaluation ✓
 - Starts Apr 28, 2013 12:01 AM

Module 8: Trauma/Interventional/Pet

Starts Apr 27, 2014 12:01 AM

All conditions must be met

Completes 1 attempt(s) on the survey: 14-SP RAD-340-W1 8wk2 (Thomas) End of Course Evaluation

Week of: 04/28/2014 - 05/04/2014

You have arrived! This is the final week of Computed Tomography Clinical Applications. Throughout this course, we have looked at imaging protocols in CT, patient care, and a light physics review. You will be taking your final exam. You have ample time to answer the 75 questions (2 hours), so gather your notes, books, an keep that browser open while you take it. With the final, tools are acceptable, but it is not a group project, so please work alone and no sharing.

This week you will be learning about the imaging protocols for trauma imaging, as well as CT-guided interventions and PET/CT, including:

- Minor and blunt chest and abdomen trauma imaging
- Head, spinal and penetrating trauma imaging
- CT-guided abscess drainage of the chest, abdominal, and pelvic region
- CT-guided punctures (needle biopsy) for the lung, mediastinum, liver, pancreas, retroperitoneum, kidneys, adrenals and bone
- CT-guided ablation therapy
- Vertebroplasty

You will also be taking a look at contrast material used in each of these exams, as well as patient care and complications.

This week, all work, exams included must be completed by Saturday at 11:59 pm!

Objectives

- Describe the clinical indications and related pathology for routine Trauma/Interventional/PET CT exams.
- Explain patient preparation and positioning for routine Trauma/Interventional/PET CT exams. Define recommended scan parameters for routine Trauma/Interventional/PET CT exams.
- Explain patient care concerns for routine Trauma/Interventional/PET CT exams .

New Add Existing Activities

Readings and Presentations

Final Exam

Due Apr 30, 2014 11:59 PM Starts Apr 29, 2014 12:01 AM

Weekly Reflection

Due May 4, 2014 11:59 PM

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Add a sub-module...

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[Assignment Information Article Critique ▾](#)

This assignment is due in Module 4.
This assignment is worth 100 points.

Write a critique that analyzes, interprets, and evaluates one of the four articles provided. A little background. The first 4 articles have to do with diseases that have affected my family. The first was my mom, the second my dad, the third my brother, and the fourth is me. My mom, dad and brother all succumb to their diseases. I remain. My stage is Ib1 and it has been 10 years since my diagnosis. So, pick an article and construct a critique. Remember this assignment is like being a movie reviewer. I do not need a history of cervical cancer or liver failure or lung cancer or kidney failure. I know more about them than I want to.

- [A case of synchronous bilateral lung cancers: EML4-ALK positive adenocarcinoma in the right lung and adenocarcinoma in situ \(the former bronchioloalveolar carcinoma\) in the left lung](#)
- [Autosomal dominant polycystic kidney disease in a family with mosaicism and hypomorphic allele](#)
- [Contrast-Enhanced Sonographic Appearance of Hepatocellular Carcinoma in Patients with Cirrhosis: Comparison with Contrast-Enhanced Helical CT Appearance](#)
- [Long-term prospective longitudinal evaluation of emotional distress and quality of life in cervical cancer patients who remained disease-free 2-years from diagnosis](#)
- [Puffed-cheek CT Improves Evaluation of the Oral Cavity](#)

The puffed-cheek CT article is just plain cool. No one in my family, (or the family of anyone I know) has been prescribed this exam.

Assessment

The body of the paper will be 4 to 5 pages in APA style. The paper will include a title page, abstract, main body (4-5 pages) and a reference page(s). Must use correct in-text citation and have a minimum of two outside supporting references and a minimum of two text book citations. Here is an APA template you can use for this and for other papers in your future. Save it on your computer and you can edit it anyway you want:

- [APA Paper Template](#)

Use the rubrics below as your checklist for clarity and content quality:

- [Critiquing an Article](#)
- [Rubric for Article Critique](#)


Remember, a critique is not a report. You are not reporting on the findings alone; those are a very small part of the assignment. There are other aspects you need to include. Consult the rubric for your guide to the correct content of your paper. If you are still in doubt, here is a sample paper for you to look at:

- [Sample Article Review](#)

I thought I would include a link to the [OWL website](#) to answer any and all of your APA format questions. Seriously, this is the ultimate APA authority.

Following the rubrics will ensure your success with the project. If you run into difficulty of any sort, post the issue on the discussion board, call/text or email me. I am here for you.....always.

And speaking of "always being here for you", help with writing can be found at the Writing Center:






Need Help With Your Writing?
Writing Center: 419-251-1734

Mercy College of Ohio
Division of Student Formation
Writing Center for DE Students

Submission

This assignment is due at the end of Module 4.

- [Submit to the dropbox here](#)

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 **Media Project** ▾



Topic Submission is due in Module 5
Project Submission is due in Module 7
This assignment is worth a total of 200 points

Assignment

This is a fun project. Prepare any type of patient education media that addresses an exam/procedure of your choice performed in CT. It's up to you. Within your chosen media you must address at a minimum:

1. Definition of exam and key terms used
2. Why the exam/procedure is done
3. How to prepare for the exam
4. What to expect during the exam
5. What to expect after the exam
6. Exam results (*possible* results and what they mean, not that you would ever tell a patient this)

Information must be expressed in terms your primary patient audience can understand. So, if, for example, you are submitting a project on a pediatric GI study, the language and images used must be easily understood by a child and their parent. If you are considering a presentation approach (which I highly encourage), I want you think beyond a powerpoint and try something new. Many presentation applications are easy to use and give wonderful results. Examples of types of media may include but not limited to:

- video
- web page
- music video
- demonstration/re-enactment video
- presentation: [PowToon](#), [Prezi](#), [MoveNote](#), [Present.Me](#), [YouTube](#) (please no powerpoint!)

Creativity is a must. You can be funny. Patients sometimes are nervous and a humorous approach can calm them and get them through the process. While I want you to work alone on this, you can include friends, family, co-workers in the project as actors if you choose the video approach.

I want this to be a fun project for you and informative to the audience. I am letting you know about this now to give you ample time to mull over your thoughts and ideas. If you need guidance, let me know. I am ready, willing, and able to help!

Presentations need to be of adequate length to thoroughly explain the procedure and the points in the Rubric. At the most, your presentation can be as long as you want, **but it must be at a minimum 4 minutes long**. I suggest 5-7 minutes long.

Here is the rubric for the assignment:

- [Rubric for Media Project](#)

Assessment

This assignment is worth a total of 200 points.

Topic Submission (Module 5): 20 points

In a one page word document, submit the topic you would like to propose for this project. In the document, describe:

- What is the topic
- Who is your audience
- The type of media you will be using
- How this project will aid in patient education

There is no need for a cover page or abstract. This is a one page assignment.

- [Submit your topic to the dropbox here](#)

Submission of the Media Project (Module 7): 180 points

Post a link to your project right to the Media Project Discussion Board so we all can see and comment on your creations. Comment on the work of at least two other classmates. If you have a hard time linking it, let me know and I can help.

- [Submit your link to the discussion board](#)

The screenshot shows a Blackboard course interface. At the top, there is a navigation bar with links for Course Home, Content, Activities, Grades, Course Tools, Edit Course, and Help. Below this is a search bar and a sidebar with navigation options like Overview, Bookmarks, Course Schedule, Table of Contents, and Major Course Projects. The main content area is titled 'Module 1: Patient Care in CT' and includes a 'Week of: 03/10/2014 - 03/16/2014' announcement. The announcement text welcomes students to the first module, discusses technical principles, clinical protocols, and radiation protection issues. It also provides contact information for questions. Below the announcement are 'Objectives' and a list of activities: 'Introduce Yourself', 'Readings and Presentations', 'Module 1 Quiz', and 'Weekly Reflection'. Each activity has a due date of 'Due Mar 16, 2014 11:59 PM' and a checkmark indicating completion.

Introduce Yourself ▾



Let's put science aside for just a couple of minutes. Let's get to know each other a little better.

Imagine you have been living on a space station for one year. Suddenly, all of the computers malfunction and you have 15 minutes to evacuate the space station before all of the life support systems fail. You are only allowed to take 5 items with you. As fast as you can, list the items. Then explain why you chose what you chose. **This part is due Thursday at 11:59 PM**

Then:

Comment on the selections of two other classmates by **Sunday at 11:59 PM**.

Assessment

Original Post by: Thursday
2 Peer Responses by: Sunday
This assignment is worth 20 points

- [View the Discussion Rubric for this assignment](#)

Discussion Area

Your posting should be completed by the due date provided in D2L's task list below.

- [Click here to enter the discussion](#)



Readings and Presentations



[Click the pic and learn](#)

Readings

Romans, L. (2011). *Computed Tomography for Technologists, A Comprehensive Text*

- Chapter 12
- Chapter 13
- Chapter 14

Seeram, E. (2009). *Computed Tomography: Physical Principles, Clinical Applications, and Quality Control (3rd Ed.)*

- Chapter 19 pp. 451 - 458

As you read Part 1 of your text this week, you will become familiar with the material covered in sectional anatomy and CT I, along with, perhaps some material you haven't yet explored. It seems like a lot of reading, but try this: Read a chapter and take a break. Go outside, make a coffee (or run out to get some, that's what I would do). But take a break between chapters. Not that there is necessarily a lot of pages to read, but the information is dense and complex. Give it a little time to settle in. Then move ahead. Just a suggestion. Of course, if the content is so riveting and you realize you've finished it all in one sitting, well, then, that's fine, too. Whatever works for you :)

Article of the week

- [Patient dosimetry study of a paediatric CT examination](#)

This is a fine article on paediatric dose and CT. Read it over.

Presentations

Listen to the two lectures over the course of your week. Again, some of this information is a good refresher for most of you, and some of the information may be new to you. Print out the power point slides if you like and follow along. It might help to print them to take notes on as well.

- [Quality Assurance \(Printable PDF\)](#)
- [Injection Techniques \(Printable PDF\)](#)

*If prompted by your browser, choose to display **both** secure and non-secure items. Close and restart your browser if necessary.*



Distance Education Division






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Christina Siegfried
Mercy College of Ohio
Distance Education Division
Phone: 419-251-1796
Christina.Siegfried@MercyCollege.edu

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 Module 1 Quiz ▾    

Gather your materials.
30 questions. 90 minutes. 40 points.
Good luck!






Academic Integrity and Allowed Materials

This exam includes a timer which will automatically submit your questions upon expiration, meaning that the allotted time will allow you to refer to your course text and notes for a **very limited** number of questions. **Do not enter the exam until you feel that you are prepared.**


I expect you to work alone on all assessments (quizzes/exams) within this course. Please do not work together, share answers, or provide questions ahead of time to another student. Collaboration with another student on an exam is considered a violation of the Academic Integrity Policy at Mercy College (pages 45-47 of the course catalogue).

It is advised that you press the Save button and save your response to each question. In the event of a technical error, some of your work may be retrievable. Call the Desire2Learn technical support team if you encounter a technical issue during your exam period: 1-877-325-7778

- [Click here to go to the exam](#)






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 Weekly Reflection ▾    

Click on your name and post a reflection on your week. The only guideline is it must be at least a paragraph.

Assessment

Original Post by: Sunday
This assignment is worth 10 points

Discussion Area

Your posting should be completed by the due date provided in D2L's task list below.

- [Click here to enter the discussion](#)



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Begins April 20
- End of Course Evaluation - Take 1

Module 2: The Head ▾

Print Settings

Starts Mar 16, 2014 12:01 AM

Published ▾

Week of: 03/17/2014 - 03/23/2014

This week, we will begin our study of CT protocols by examining protocols for the brain. As we progress through this course we will start with the most frequently performed exams presented clinically. By far the most common exams in CT are brain studies followed closely by the abdomen.

Fair warning: please remember that your Weekly Quizzes can cover content from the Chapter Reading, Article of the Week, lectures and videos presented this week. It's all about building connections, one of the many factors that reside under the umbrella of critical thinking.

Objectives

- Describe the clinical indications and related pathology for routine CT exams of the brain.
- Explain patient preparation and positioning for routine CT exams of the brain.
- Define recommended scan parameters for routine CT exams of the brain.
- Explain patient care concerns for routine CT exams of the brain.

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- Readings and Presentations ▾
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Readings

Romans, L. (2011). *Computed Tomography for Technologists, A Comprehensive Text*

- Chapter 15: Neuroanatomy: Brain
- Chapter 19: read about the head and CTA of the head and neck, perfusion studies and stroke for now. We will revisit this chapter in Module 6 when we cover the neck (in more detail), facial bones and sinuses.

Seeram, E. (2009). *Computed Tomography: Physical Principles, Clinical Applications, and Quality Control (3rd Ed.)*

- Chapter 17: Again, read the head and cerebral vessels sections. We will come back for the neck and spine later.
- Chapter 19: pp.458 - 461

Article of the week

- [Paranasal sinus pathologies in patients presenting with headache as the primary symptom](#)

Please read the article and then find one to summarize for the discussion board. You are all doing a great job!

Presentations

Again, I would break up the lectures with a walk or food or something. Granted, they are not long, but the information is rich and it's easier if you give each a little "soaking" time.

- [Neurological Imaging Procedures Part 1 \(Printable PDF\)](#)
- [Neurological Imaging Procedures Part 2 \(Printable PDF\)](#)
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Weekly Reflection ▾



Click on your name and post a reflection on your week. The only guideline is it must be at least a paragraph.

Assessment

Original Post by: Sunday
This assignment is worth 10 points

Discussion Area

Your posting should be completed by the due date provided in D2L's task list below.

- [Click here to enter the discussion](#)