

## WEEKLY READING GUIDE FOR THE BODY CT ROTATIONS

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THIS LIST SHOULD *GUIDE* YOUR READING. THIS IS NOT A COMPREHENSIVE LIST OF EVERYTHING YOU SHOULD READ TO BECOME PROFICIENT IN BODY IMAGING. READING ABOUT CASES YOU HAVE SEEN DURING THE ROTATION SHOULD BE OCCURRING CONCURRENTLY.

### SUGGESTED READING SOURCES – ALL OF THESE ARE IN THE RESIDENT LIBRARY

-BOOK 3- Oxford American Handbook of Radiology, Lewis, McNulty, 2013, Oxford University Press

-FUNDAMENTALS OF BODY CT, Webb, Brant and Major, 1998 ELSEVIER

-COMPUTED BODY TOMOGRAPHY WITH MRI CORRELATION, Lee JK, Sagel SS, 1998, Lippincott-Raven

- Dynamic Radiology of the Abdomen, Morton Meyers, Springer-CTA BOOK- CT AND MR ANGIOGRAPHY COMPREHENSIVE VASCULAR ASSESSMENT, Rubin GD, Rofsky NM, 2009, Lippincott-Williams & Wilkins

### Rotation #1, year one

#### *PREPARATION*

*Review CT anatomy:* [www.dartmouth.edu/~anatomy](http://www.dartmouth.edu/~anatomy) Under 'abdomen, pelvis', there are a series of contiguous CT images with pertinent anatomy to identify. Site can be used to self-test.

*Oxford American Handbook of Radiology*  
chapters 1 and 3 (section on 'CT')

*FUNDAMENTALS OF BODY CT*  
chapter 8 "Introduction to CT of the abdomen & pelvis"

#### *WEEK 1*

*Oxford American Handbook of Radiology*  
Common conditions evaluated with CT & MR"

*COMPUTED BODY TOMOGRAPHY WITH MRI CORRELATION*  
Normal abdominal and pelvic anatomy

*FUNDAMENTALS OF BODY CT*  
Peritoneal cavity, vessels, nodes, abdominal wall  
Liver  
Renal stone disease

#### *WEEK 2*

*FUNDAMENTALS OF BODY CT*  
Abdominal Trauma  
Pancreas  
Gastrointestinal tract

#### *WEEK 3*

#### *FUNDAMENTALS OF BODY CT*

Kidneys & ureters  
Pelvis  
Retroperitoneum" → Aorta  
Mediastinum: vascular abnormalities

#### *WEEK 4*

#### *FUNDAMENTALS OF BODY CT*

Spleen & lymph nodes  
Reproductive structures  
Biliary  
Adrenals

### Rotation #2, year one

#### *WEEK 1*

#### *COMPUTED BODY TOMOGRAPHY WITH MRI CORRELATION*

Abdominal Wall and Peritoneal Cavity  
CTA book- Chapter 19, "Normal anatomy and congenital variants"  
Kidney: imaging techniques, RCC types & staging, CT urography techniques & urothelial carcinoma

#### *WEEK 2*

Pancreas: techniques, anatomy, developmental abnl, Fatty infiltration, pancreatitis & complications, adenocarcinoma, metastasis  
Liver: Principles of contrast enhancement, Imaging techniques, benign & malignant hepatic tumors

#### *WEEK 3*

Inflammatory & infectious processes:  
Colitis, enteritis, appendicitis & their complications  
Adrenal: benign and malignant nodules, imaging techniques  
GI tract adenocarcinomas, risks, polyposis syndromes

#### *WEEK 4*

Vascular imaging:  
CTA book- CTA technique  
CTA book –Abdominal aorta anatomy, Anuerysms  
CTA book- Acute aortic syndromes"

### Rotation #3, year two – heavier emphasis on MRI

#### *WEEK 1*

CTA book –Chapter 18, Stenosis/occlusion, Dissection, trauma, ulceration  
Spleen: benign, malignant & infections  
Peritoneum/mesentery: mesenteric panniculitis, carcinomatosis, pseudomyxoma peritonei, benign and malignant masses, cystic lesions

#### *WEEK 2*

Pancreas: MR imaging techniques, cystic lesions, neuroendocrine tumors, staging pancreatic adenocarcinoma  
Liver: MR techniques, gadolinium agents, Abscess, diffuse disease, vascular disorders, transplant, benign masses  
Learn Couinaud's segmental anatomy of the liver:

<http://www.radiologyassistant.nl/en/p4375bb8dc241d>

**WEEK 3**

Biliary Tract: MR techniques, diffuse disease, strictures, benign and malignant masses, inflammatory conditions

Trauma: grading solid organ injury, protocols, complications

Inflammatory bowel disease: MR techniques, staging, complications

Cirrhosis: MR techniques, LIRADS, malignant masses

**WEEK 4**

Kidneys: Cystic renal lesions, bosniak

Incidental findings: Read the ACR white papers on pancreas, adrenals, adnexa

Extraperitoneal spaces; normal and pathologic anatomy

Intraperitoneal spread of malignancies

**Rotation #4, year three**

**WEEK 1**

Vascular: Vasculitis, mesenteric ischemia, vascular compression syndromes

Retroperitoneum: Masses, inflammation, infection, compartments, perforations

**WEEK 2**

Prostate: MR techniques, PIRADS, benign and malignant masses, infection

Rectum: MR techniques, staging, reporting adenocarcinoma, infection, inflammation

Anus: MR techniques, infection/inflammation, neoplasm

**WEEK 3**

Uterus: MR techniques for congenital & malignant processes, congenital anomalies, endometrial, junctional zone and myometrial masses & disorders, Endometriosis

Cervix: Cancer & staging

Ovaries: MR techniques, benign and malignant masses, infection/ inflammation

**WEEK 4**

Defacography