WEEKLY READING GUIDE FOR THE BODY CT ROTATIONS

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


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

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


Rotation #1, year one

PREPARATION
Review CT anatomy: 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:
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