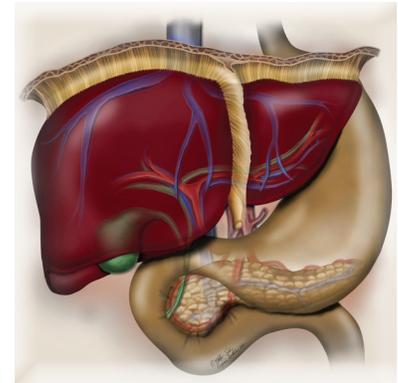


COMPLETE ABDOMEN REVIEW

EOURSE

SUMMARY

The Pegasus Abdomen Review eCourse, presented by M. Robert De Jong, RDMS, RVT, FSDMS, is designed to prepare candidates for the ARDMS Abdomen credentialing exam and to provide ultrasound professionals with a review of abdominal ultrasound. Bob DeJong, recipient of the 2004 RSNA Educator of the Year Award, gives a comprehensive review consisting of ten modules: Liver, Pathology of the Liver, Gallbladder and Biliary Tree, Pancreas, Kidneys and Urinary Tract, Male Pelvis, Abdominal Vasculature, Spleen, Retroperitoneum and GI Tract, and Neck, MSK, and Invasive Procedures.



INSTRUCTOR BIOGRAPHY



M. Robert De Jong, RDMS, RDCS, RVT

Radiology Technical Manager, Ultrasound, The Johns Hopkins Medical Institutions, Baltimore, MD

Robert has been involved in ultrasound since 1976. He is registered in abdominal, OB/GYN, adult echo, and vascular specialties. He is currently the Radiology Technical Manager of Ultrasound at The Johns Hopkins Medical Institutions in Baltimore, Maryland. Robert is active in national meetings such as the SDMS, RSNA, and AIUM. At Hopkins, Robert lectures to medical students, radiology residents, and ultrasound students. He has represented the SDMS on the Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL) board and is a member of the SDMS Government Relations Committee. Robert was awarded the SDMS Joan Baker Pioneer Award in 1996 and was chosen 2004 Radiology

Educator of the Year by RSNA. Between work and lecturing, Robert is involved in church and family activities with his wife and two sons.

ABDOMEN MODULE DESCRIPTIONS

Module 1: Liver

In the first of 10 modules in the Abdomen Registry Review eCourse, Robert De Jong, RDMS, RVT, FSDMS covers liver anatomy (including Couinaud segments), basic physiology and laboratory values. The hepatic circulation is discussed followed by liver function tests and coagulation factors. Module length is 55 min.

Module 2: Pathology of the Liver

In this module, Bob De Jong, RDMS, RVT, FSDMS reviews liver parenchymal disease including causes, clinical symptoms, and sonographic appearance. Other topics include liver cirrhosis, hepatitis, primary adult and pediatric liver malignancies, metastatic disease, benign masses and cysts, polycystic liver disease, abscesses, and hepatic trauma. The module concludes with a discussion of liver transplants. Module length is 1hr 5 min.

Module 3: Gallbladder and Biliary Tree

This module begins with a review of the normal anatomy and variants of the gallbladder and biliary tree. Bob De Jong, RDMS, RVT, FSDMS discusses scanning techniques, landmarks and laboratory values for gallbladder and biliary disease. Findings and complications of biliary and hepatic obstruction are reviewed. Additional topics include pancreatic causes of obstruction, biliary atresia, pneumobilia, gallbladder carcinoma, gallstones, acute cholecystitis and artifacts encountered during the gallbladder and biliary exam. Module length is 1hr 8 min.

Module 4: Pancreas

Bob De Jong, RDMS, RVT, FDMS begins this module with pancreatic anatomy, vascular landmarks, and pancreatic, exocrine and endocrine functions. The next section includes imaging techniques, sonographic pitfalls, and laboratory values. The module concludes with acute and chronic pancreatitis, pancreatic cancer, pseudocyst, and cystic fibrosis. Module length is 45 min.

Module 5: Kidneys and Urinary Tract

In Module 5, the renal anatomy, structure, and function of the kidney are reviewed, followed by a discussion of normal anatomy, variants, and defects of the urinary bladder. Additional topics include extra renal pelvis, duplicated collected system, multiple renal arteries, newborn and pediatric renal imaging, techniques for renal imaging, renal function tests, laboratory values and the technique for native renal biopsy. Module length is 33 min.

Module 6: Kidneys and Urinary Tract Pathology

Module 6 begins with a discussion of renal parenchymal disease and acute/chronic renal failure. Additional topics include masses, renal cell carcinoma, transitional cell carcinoma, metastatic disease, lymphoma, Wilm's Tumor, mesoblastic nephroma, benign renal tumors, and cysts. Adult polycystic disease and newborn multicystic dysplastic kidney is also covered. The module concludes with a section on acute pyelonephritis, renal abscesses and hematomas, kidney stones, renal anomalies and renal transplants. Module length is 1 hr 9 min.

Module 7: The Male Pelvis

The seventh module in this ten module series begins with a presentation of scrotal and testicular cysts and testicular tumors. Additional topics include parenchymal disease, cryptorchism, hydrocele, pyocele, spermatocele, varicocele, and inguinal hernia. Bob De Jong, RDMS, RVT, FSDMS also discusses epididymitis, testicular torsion and trauma. This module concludes with a prostate section consisting of prostate zonal anatomy, techniques and indications for transabdominal and transrectal imaging, laboratory values, benign prostate hypertrophy, prostate cancer, prostatitis, prostate biopsy, Gleason Grade, and congenital anomalies. Module length is 57 min.

Module 8: Abdominal Vasculature

Bob De Jong, RDMS, RVT, FSDMS begins this module with a review of the Doppler effect, Doppler equation, characteristics of arterial and venous flow and the Resistive Index. The abdominal aorta is covered in the next section with a discussion of normal anatomy, branches, abdominal aortic aneurysm causes, risk factors, and measurement techniques. Identification of the visceral anatomy and spectral Doppler characteristics is followed by a section on renal artery stenosis, fibromuscular dysplasia and renal artery thrombosis. This module concludes with a discussion of the systemic veins including IVC obstruction, IVC filters, hepatic and portal vein obstruction, portal hypertension criteria, spleno-renal shunts, renal veins and TIPS. Module length is 57 min.

Module 9: Spleen, Retroperitoneum and GI Tract

This module begins with a review of the spleen anatomy, splenic function and normal variants, scanning technique, laboratory values, parenchymal disease, blood disorders and spleen size, masses, metastatic disease, and trauma. The retroperitoneum is discussed with a review of anatomy and anatomical landmarks, the lymphatic system, and abdominal adenopathy. Additional topics include a section on the adrenal gland which includes anatomy, adrenal hemorrhage, and adult and pediatric masses. The module concludes with a discussion of the GI tract, appendicitis, pyloric stenosis, intussusception and ascities. Module length is 42 min.

Module 10: Neck, MSK, and Invasive Procedures

In the final module of this ten module abdomen series, Bob De Jong, RDMS, RVT, FSDMS begins with a section on the neck which includes thyroid anatomy, physiology, thyroid hormones, thyroid function, ultrasound findings in benign and malignant lesions, and thyroid cancer. The musculoskeletal portion reviews imaging of tendons and findings with a full or partial tendon tear. This module concludes with a review of precautions and complications of invasive procedures. Module length is 35 min.

Test-Taking Strategies

The ability to perform well on a multiple choice test is a skill that requires both fore- thought and practice. In this module, some very unique techniques are taught which will significantly change your test taking approach, as well as improve your test taking abilities. Within this module we will discuss concepts which include how best to read a test question, how to approach answering a test question, types of questions, distracter types, dealing with questions of inversion, logic and reasoning skills, and intelligent use of scrap paper. Additionally, specific test questions are given which allow for direct application of these concepts. Module length is 1hr 18 min.

Complete Abdomen Review eCourse

Core concepts: 10 hrs 4 min

Focused review: 7 hrs 36 min (optional)