Core Physics Review 2015

For information contact:
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http://med.umkc.edu/radiology/physics-review/

Speaker: Nima Kasraie, PhD
Date: May 4-8, 2015

Affordable Physics Review for Core exam on the Plaza in Kansas City
5 day review course 5/4-8

Monday —Wednesday
1. X-rays—Physical Nature and Properties
2. Image Formation
   a. Imaging Modes
      b. Radiograph, Fluoroscopy,
         c. CT, MR, US
      b. What causes the image contrast in each
         mode?
      c. What affects resolution?
      d. Where does noise come from?
4. Radiation Safety
   a. What is the hazard of radiation?
      i. Skin damage (deterministic)
      ii. Cancer (stochastic)
   b. Radiation Protection Principles
      i. Time, Distance, Shielding
   c. Where does the radiation come from?
      i. Primary Radiation
      ii. Secondary Radiation
   d. Radiation Limits
      i. Patient, Radiation Worker
      ii. General Public, Embryo/fetus
5. Radiography/Fluoroscopy
   i. Image production/safety
      1. Resolution, Contrast, Noise, Window
6. Nuclear Medicine and Radiation biology
7. Image Production
   1. Resolution, Contrast
   3. Noise, Window/Level
   ii. Radiation Safety
      1. Primary & Secondary Radiation
      3. In-room, Control & Environments, Shielding

Wed – Thursday
1. Mammography
2. Computed Tomography—Principals & artifacts
3. Ultrasound—principles, transducers and artifacts
2. MRI—physical principals, artifacts
Friday:
Case based core question review session

Registration

Name_____________________________________________________(Include first and last name)
Institution __________________________________________________
Level of training ___PGY2 ___PGY3 ___PGY4 ___ PGY5
Street address ______________________________________________
City, State and zip code _______________________________________
Home phone________________________________________________
Contact phone while in KC____________________________________
Email address ______________________________________________
(Include address where you would like to receive course information)
Emergency contact name______________ & phone________________

Dates: 5 day course May 4-8, 2015
Times: 8am-5pm
Course location:
Radiology Dept, Saint Luke’s Hospital on the Plaza
Radiology Education Center—Scarpellino Hall
4011 Wornall Road
Kansas City, MO 64111

Fees prior to March 30, 2014:
• $350 prior to Apr 1 & $400 after.
• Make checks payable to: UMKC Radiology Dept & include physics
  in the memo. Mail to: Daphne Urquhart at address above
• Pay on line at https://ecommerce.umkc.edu/donate/non-
  alumni.aspx. YOU MUST put Radiology Physics in comments
  and send/email registration information to Ms. Urquhart
• Registration limited to 50 participants

Cancellation policy: Full refunds prior to April 5, 2015; After incurs $50 cancellation fee. No refund after Apr 20, 2015.