Target Audience and Workshop Description

This workshop is dedicated to CT technologists and nurses at Stanford Hospital and Clinics who are involved in neuro- and body CT imaging. This workshop will review neuro- and abdominal organ anatomy, explain the technical basics of state of the art CT imaging with special attention to radiation exposure and dose reduction. The physiology of techniques of contrast medium administration will be explained, and demonstrated in several clinical examples.

Learning Objectives

By participation in this small-group workshop, attendees will

- understand the role of state of the art CT in neuro- and body imaging.
- gain fundamental understanding of modern CT technology, with emphasis on latest dose reduction techniques.
- acquire practical dose reduction strategies related to optimizing scanning ranges and patient positioning to minimize radiation exposure to the patients
- learn the basic physiology of contrast medium enhancement for vascular, neuro- and abdominal organ CT
- review practical injection techniques, such as IV placement, and injection protocols for neuro- and body- CT imaging

Accreditation

This course is pending accreditation for continuing education for Radiologic Technologists and Registered Nurses

- up to 7 hrs ARRT-CE Category A Credits
- up to 7 hrs CE Credits for Registered Nurses

Registration

Registration is free of charge.

For registration, please contact,
Daisha Marsh dmash@stanfordmed.org or
Harmandeep Madra hmadra@stanfordmed.org

Deadline for registration is: May 31, 2010
Seating is limited, and priority will be assigned Stanford Technologists/Nurses
3rd Stanford Computed Tomography Workshop
RADIATION DOSE AND CONTRAST MEDIA IN NEURO & BODY CT
Lucas Learning Center, Stanford Radiology, Saturday, JUN. 05, 2010

PROGRAM

Saturday Morning Session, RADIATION DOSE AND CONTRAST MEDIUM:

08:00 Introduction (FLEISCHMANN)

08:10 The ABCs of scanning and radiation dose parameters in computed tomography (FLEISCHMANN)

08:50 Automated tube current modulation (MOLVIN)

09:10 Correct patient positioning and scanning range reduces radiation dose (DAMITS)

09:30 Practical tips and tricks for scanning children (NAEEM)

09:45 Discussion

10:00 COFFEE BREAK (20 min)

10:20 Intravenous access and contrast medium for CT: the nurses perspective (MADRA)

10:45 Contrast medium induced nephrotoxicity: precautions and policies in patients with decreased renal function (FLEISCHMANN)

11:30 What went wrong with this injection? (MARSH)

12:00 LUNCH BREAK (1h 00min)

Saturday Afternoon Session, NEURO & BODY ANATOMY AND PATHOLOGY:

13:00 Neuro-Anatomy CT (REX)

13:30 Physiologic basis of contrast medium injection strategies for vascular, neuro, and abdominal CT (FLEISCHMANN)

14:10 Neuro case conference (REX)

14:40 COFFEE BREAK (10 min)

14:50 Anatomic basis of the spread of disease in the peritoneum and retroperitoneum (MINDELZUN)

15:30 2D and 3D abdominal vascular anatomy and pathology (FLEISCHMANN)

16:00 END
Organization

Course Director: Dominik Fleischmann, MD  
Director, Computed Tomography  
Stanford Hospital and Clinics

Program Coordinators: Daisha Marsh, RT (R)(CT)  
Caryn Damits, RT (R)(CT)  
Lior Molvin, RT (R)(CT)

Registration: Daisha Marsh, RT (R)(CT)  
Harmandeep Madra, RN

Venue

The workshop will take place in the Lucas Learning Center, Department of Radiology, Stanford University, Stanford, CA  
1201 Welch Road, Room P-083 (Lucas Expansion)  
Room capacity and hands-on workstation training is limited

Speakers / Presenters

Caryn Damits, RT (R)(CT)  Department of Radiology

Dominik Fleischmann, MD  Associate Professor of Radiology  
Stanford University

Harmandeep Madra, RN  Department of Radiology

Daisha Marsh, RT(R)(CT)  Department of Radiology

Robert Mindelzun, MD  Professor of Radiology  
Stanford University

Lior Molvin, RT (R)(CT)  Department of Radiology  
Stanford Medicine Imaging Center

Zeenat Naeem, RT (R)(CT)  Department of Radiology  
Lucille Packard Children’s Hospital

David Rex, MD  Department of Radiology  
Division of Neuroradiology