CATEGORICAL COURSE CURRICULUM
2 YEAR COURSE

CHEST RADIOLOGY

Lecture 1   Chest Radiology – anatomic considerations
Lecture 2   Radiographic Signs in Diagnosis of Chest Disease
            with emphasis on Signs of Lobar Atelectasis
Lecture 3   Radiographic Assessment of Chest Trauma
Lecture 4   Radiographic Evaluation of Lung Cancer
Lecture 5   Sarcoid
Lecture 6   Immunologic Lung Disease
Lecture 7   Pulmonary edema
Lecture 8   Mycobacterial Infections
Lecture 9   Fungal Infections
Lecture 10  Diffuse lung disease including high resolution chest CT
Lecture 11  Inhalational lung diseases
Lecture 12  Pulmonary infections in the immune compromised host
Lecture 13  Radiology of COPD and emphysema
Lecture 14  Radiology of the pleura, diaphragm, and chest wall
Lecture 15  Radiology of the mediastinum

Goals and Objectives – Chest Radiology (First year)

I.  Patient Care
   Residents must be able to provide patient care that is compassionate,
   appropriate, and effective for the treatment of health problems and the
   promotion of health.
   (a) Shows ability to interact with clinicians when reviewing chest imaging
       studies.
   (b) Shows ability to recommend additional imaging studies as appropriate to
       better assess chest x-ray findings (e.g. CT/US/MRI).
   (c) Shows ability to use PACS and hospital information systems
II. Medical Knowledge
(a) Demonstrates knowledge of normal/abnormal anatomy as seen on Chest x-ray/chest CT.
(b) Shows ability to recognize and describe common medical conditions as depicted on chest imaging studies.

I. Practice Based Learning and Improvement
(a) Shows evidence of independent study using textbooks from suggested reading list.
(b) Demonstrates appropriate follow up of interesting cases.
(c) Prepares teaching file of interesting cases.

I. Interpersonal Skills
Residents must demonstrate skills to:
am) Interact with x-ray technologists, medical students, fellow residents, and attending radiologists.
b) Interact with clinicians when reviewing cases involving chest imaging studies.
c) Interact with patients/family when performing invasive procedures such as lung biopsy, thoracentesis.

I. Professionalism
VI) Residents must demonstrate ability to interact with patient/patient’s family/clinician when discussing significance of x-ray findings and their impact on patient care including what imaging studies may or may not be appropriate.

VI.. Systems Based Practice
a) Shows ability to interact with clinicians regarding cost effective and streamlined patient evaluation for differing clinical entities.
b) Able and willing to participate in clinical conferences in which imaging studies used to guide patient care/evaluation.

**Goals and Objectives – Chest Radiology (Second Year)**

VI) I. Patient Care
Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.
(a) Shows ability to interact with clinicians when reviewing chest imaging studies.
b) Shows ability to recommend additional imaging studies as appropriate to better assess chest x-ray findings (e.g. CT/US/MRI).
c) Shows ability to use PACS and hospital information systems
d) Is able and willing to assist lower level residents
e) Is able and willing to make assigned presentations to various groups on the appropriate application of chest imaging studies.
f) Is able and willing to make presentations on both local/national level as assisted by staff.
II. Medical Knowledge
   a) Demonstrates knowledge of normal/abnormal anatomy as seen on Chest x-ray/chest CT.
   b) Shows ability to recognize and describe common medical conditions as depicted on chest imaging studies.
   c) Is familiar with both common and uncommon chest conditions and can formulate extensive differential diagnosis for findings on thoracic imaging studies.
   d) Is able and willing to teach lower level residents
   e) Can perform most interventional chest procedures with staff supervision.

 VI) III. Practice Based Learning and Improvement
   a) Shows evidence of independent study using textbooks from suggested reading list.
   b) Demonstrates appropriate follow up of interesting cases.
   c) Prepares teaching file of interesting cases.
   d) Is able and willing to make detailed presentations of thoracic imaging studies at both intra and interdepartmental conferences.
   e) Upon request, participates in educational courses for clinicians, medical students, and fellow residents.

 VI) IV. Interpersonal Skills
 Residents must demonstrate skills to:
   a) Interact with x-ray technologists, medical students, fellow residents, and attending radiologists
   b) Interact with clinicians when reviewing cases involving chest imaging studies.
   c) Interact with patients/family when performing invasive procedures such as lung biopsy, thoracentesis.
   d) Can participate in administrative and scholarly committees when asked.

 VI) V. Professionalism
   a) Residents must demonstrate ability to interact with patient/patient’s family/clinician when discussing significance of x-ray findings and their impact on patient care including what imaging studies may or may not be appropriate.
   b) Can participate in activities relative to the role of chest imaging both to the medical community and the lay public.

 VI. Systems Based Practice
   a) Shows ability to interact with clinicians regarding cost effective and streamlined patient evaluation for differing clinical entities.
   b) Able and willing to participate in clinical conferences in which imaging studies used to guide patient care/evaluation.
   c) Is able and willing to organize and present case conferences/didactic sessions as directed and supervised by radiology staff.

Goals and Objectives – Chest Radiology (Third and Fourth Year)

VI) I. Patient Care
Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.
a) Shows ability to interact with clinicians when reviewing chest imaging studies.
b) Shows ability to recommend additional imaging studies as appropriate to better assess chest x-ray findings (e.g. CT/US/MRI)
c) Shows ability to use PACS and hospital information systems
d) Is able and willing to assist lower level residents
e) Is able and willing to make assigned presentations to various groups on the appropriate application of chest imaging studies.
f) Is able and willing to make presentations on both local/national level as assisted by staff.

II. Medical Knowledge
a) Demonstrates knowledge of normal/abnormal anatomy as seen on Chest x-ray/chest CT
b) Shows ability to recognize and describe common medical conditions as depicted on chest imaging studies.
c) Is familiar with both common and uncommon chest conditions and can formulate extensive differential diagnosis for findings on thoracic imaging studies.
d) Is able and willing to teach lower level residents.
e) Can perform most interventional chest procedures with staff supervision.
f) Can serve as an authoritative consultant to clinicians on the interpretation of and appropriate use of imaging studies.
g) Can perform and teach interventional procedures under staff supervision.

III. Practice Based Learning and Improvement
a) Shows evidence of independent study using textbooks from suggested reading list.
b) Demonstrates appropriate follow up of interesting cases.
c) Prepares teaching file of interesting cases.
d) Is able and willing to make detailed presentations of thoracic imaging studies at both intra and interdepartmental conferences.
e) Upon request, participates in educational courses for clinicians, medical students, and fellow residents.
f) Upon request, participates in educational activities at the local/national level.

IV. Interpersonal Skills
Residents must demonstrate skills to:
a) Interact with x-ray technologists, medical students, fellow residents, and attending radiologists.
b) Interact with clinicians when reviewing cases involving chest imaging studies.
c) Interact with patients/family when performing invasive procedures such as lung biopsy, thoracentesis.
d) Can participate in administrative and scholarly committees when asked.
e) Can serve as a liaison between our department with both other radiology departments and other specialty groups in our institution.

V. Professionalism
a) Residents must demonstrate ability to interact with patient/patient’s family/clinician when discussing significance of x-ray findings and their impact on patient care including what imaging studies may or may not be
appropriate.

b) Can participate in activities relative to the role of chest imaging both to the medical community and the general public.

c) Is perceived as a role model for radiology from both within and outside the department.

VI. Systems Based Practice

a) Shows ability to interact with clinicians regarding cost effective and streamlined patient evaluation for differing clinical entities.

b) Able and willing to participate in clinical conferences in which imaging studies used to guide patient care/evaluation.

c) Is able and willing to organize and present case conferences/didactic sessions as directed and supervised by radiology staff.

d) Is able and willing to participate in activities at the local/national level under staff supervision.

Chest Evaluation

Interpretative Skills

1) Visual perception

2) Ability to formulate a differential diagnosis

3) Knows necessary anatomy

4) Performs competently all invasive procedures appropriate for level of training (manual skills)

Patient Care

5) Effectively interact with clinicians when reviewing chest imaging studies

6) Show ability to use PACS and other hospital information systems

7) Be able to assist and/or train other radiology residents and medical students

8) Be able and willing to make assigned presentations to various groups on the appropriate application of chest imaging studies

Knowledge

9) Know normal/abnormal anatomy as seen on chest imaging studies

10) Recognize and describe medical conditions as depicted on chest imaging studies

11) Perform interventional chest procedures appropriate to level of training

12) Serve as a consultant to clinicians on interpretation of and appropriate use of chest imaging studies

Practice-Based Learning and Improvement

13) Show evidence of independent study using assigned textbooks and journal articles
14) Prepare teaching files of interesting cases
15) Make detailed presentations of thoracic imaging studies at both intra and interdepartmental conferences
16) Participate in educational activities at local/national level

Interpersonal and Communication Skills

17) Effectively interact with x-ray technologists, medical students, fellow residents, and attending radiologists
18) Effectively interact with clinicians when reviewing cases involving chest imaging studies
19) Effectively interacts with patients/family when performing invasive procedures such as lung biopsy, thoracentesis
20) Participate in administrative and scholarly committees when asked

Professionalism

21) Shows ability to interact with patient/family/clinician when discussing significance of x-ray findings and their impact on patient care including what imaging studies may or may not be appropriate
22) Is perceived as a role model for radiology from both within and outside the department

Systems-Based Practice

23) Interact with clinicians regarding cost effective and streamlined patient evaluation for differing clinical entities
24) Be able and willing to organize and present case conferences/didactic sessions as directed and supervised by radiology staff
25) Be able and willing to participate in activities at the local/national level under staff supervision