



2012 Annual Convention
Las Vegas, NV
Plain Film Radiology: Expert Reviews
Monday, April 16th

Faculty: Jake Block, MD and Kate Hartley, MD

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| 7:00-8:00am | Registration |
| 8:00-8:15am | Introduction/Housekeeping |
| 8:15-9:25am | Radiography of Common Extremity Injuries |
| 9:25-10:15am | Radiography of the Skull, Face, and Paranasal Sinuses |
| 10:15- 10:30am | Break |
| 10:30-11:30am | Emergency Radiology Radiograph Review: Chest and Abdominal Imaging – Part I |
| 11:30 – 11:45am | Morning Q/A session |
| 11:45am-1:00pm | Group Lunch |
| 1:00-1:30pm | Emergency Radiology Radiograph Review: Chest and Abdominal Imaging -- Part II |
| 1:30 – 2:45pm | Acute Nontraumatic Abnormalities of the Axial and Appendicular Skeleton |
| 2:45-3:00pm | Break |
| 3:00-4:30pm | Spine and Pelvis Imaging – Becoming an Expert in Radiograph Interpretation |
| 4:30 – 6:30pm | Exhibit Hall Grand Opening and Welcome Reception |

Radiography of Common Extremity Injuries

A variety of interesting radiographs will be discussed, with an emphasis on skeletal trauma. Participants will be introduced to an accurate and reliable method of evaluating radiographs in the urgent care setting. A variety of frequent and infrequent injury patterns will be reviewed. Pitfalls in both imaging and interpretation will be illustrated.

At the conclusion of this lecture, participants will be able to:

1. Discuss common reasons why pathology may go undetected after routine radiologic imaging.
2. Recognize and discuss the concept of “paired bone” injury.
3. Discuss the importance of a variety of avulsive injuries throughout the skeletal system.
4. Apply a systematic method of skeletal radiograph assessment.
5. Understand the limitations of conventional radiography as it applies to radiographically occult injury.

Radiography of the Skull, Face, and Paranasal Sinuses

This review of the radiographic evaluation of the skull, face, and paranasal sinuses will include a discussion on radiography’s role in head and face imaging, the utility of commonly obtained views, and a discussion of common acute and non-acute findings that may be encountered.

After this presentation, participants will:

1. Be able to identify basic skull and face anatomy on radiographs.
2. Be familiar with common fractures of the orbit and face.
3. Know the radiographic presentation of acute sinusitis,
4. Be aware of common skull manifestations of chronic disease that may be incidentally encountered when imaging the head and face for acute pain.
5. Understand the limitations of radiography in skull and face imaging.

Emergency Radiology Radiograph Review: Chest and Abdominal Imaging

This lecture focuses on acute pathologic entities visible on Chest and Abdominal radiographs obtained in an acute-care outpatient environment.

At the conclusion of this lecture, participants will be able to:

1. Illustrate the concept of fine-detail vs. low-detail findings.
2. Demonstrate recognition of common patterns of disease visible on plain radiographs of the chest and abdomen.
3. Recognize and identify unusual presentations and features of cardiopulmonary disease.
4. Quickly identify life-threatening abdominal processes.
5. Demonstrate renewed confidence in the ability to assess radiographs in the setting of acute cardiopulmonary or abdominal crisis.

Acute Nontraumatic Abnormalities of the Axial and Appendicular Skeleton

This hour will be an image-rich review of common and less common non-traumatic etiologies of acute musculoskeletal pain which often result in acute care encounters.

At the conclusion of this lecture, participants will be able to:

1. Identify the hallmark radiographic features of various causes of acute arthritis.
2. Be aware of the radiographic findings which allow for the confident diagnosis of bone and joint infection.
3. Develop a sensitized eye for subtle finding of stress injury and know when additional imaging or referral is required.

4. Become re-familiar with the classic features of osteonecrosis in various anatomic locations.
5. Review common causes of orthopedic hardware failure.
6. Recognize when neoplasm may be underlying acute pain.

Spine and Pelvis Imaging – Becoming an Expert in Radiograph Interpretation

Participants will be introduced to an accurate and reliable method of evaluating cervical, thoracic and lumbar spine radiographs. A variety of frequent and infrequent spine and pelvic injury patterns will be reviewed. Pitfalls in both imaging and interpretation will be illustrated.

After completion of this course, participants will:

1. Apply a systematic method of spine and pelvic radiograph assessment.
2. Understand some limitations of conventional radiography, and know when to refer for advanced imaging techniques.
3. Demonstrate renewed confidence in their ability to assess spine radiographs in the setting of acute trauma.
4. Discuss the “ring” concept of pelvic injury.
5. Recognize common patterns of pelvis and acetabular fracture.