Rotation 1:

1. **Knowledge Based Objectives**
   At the end of rotation one, the resident should be able to:
   - Recognize normal anatomy on X-ray and CT scans and identify common pathologic entities
   - Recognize common oncologic emergencies encountered, including PE, bowel perforation, and pathologic fractures
   - Understand the basics of contrast media and contrast-related difficulties and complications

   **Assessment**
   Global ratings by faculty
   Written ABR examination
   ACR in-training examination
   Attendance logs for multidisciplinary conferences
   Documented membership and participation in radiologic societies and other health care organizations

2. **Technical Skills**
   At the end of rotation one, the resident should be able to:
   - Demonstrate an informed understanding of the basics of X-ray and CT, and recognize whether an exam is technically adequate
   - Demonstrate her/his knowledge of basic ultrasound techniques
   - Protocol CT examinations

   **Assessment**
   Global ratings by faculty
   Written ABR examination
   ACR in-training examination
   Attendance logs for multidisciplinary conferences
   Documented membership and participation in radiologic societies and other health care organizations

**Number of films read per day:** 10 films

**Types of films read:** 5 CT and 5 plain films

3. **Decision-Making & Value Judgment Skills**
   At the end of rotation one, the resident should be able to:
   - Demonstrate skills in obtaining informed consent, including effective communication to patients regarding procedures, their alternatives, and possible complications
   - Provide compassionate, appropriate and effective patient care commensurate with experience and individual competency.
   - Insure the patient’s dignity and privacy and not discriminate against any patient based on religion, ethnic, sexual or educational differences.
   - Communicate effectively and use appropriate nomenclature with healthcare professionals, including faculty, technologists, and support staff.
   - Communicate with referring physicians about all significant or unexpected radiological findings.
   - Recognize limits in personal skill and knowledge, especially when assisting with imaging interpretation and patient management. Obtain help from supervisory faculty when appropriate.
• Demonstrate a professional work ethic including:
  o Altruism.
  o Punctuality.
  o Adherence to all relevant policies and procedures.
  o Proper preparation for rotation, including recommended reading assignments completed.
  o Treat all faculty, technologists, and support staff with respect, understanding, and professionalism.

Assessment
Global ratings by faculty
Written ABR examination
ACR in-training examination
Attendance logs for multidisciplinary conferences
Documented membership and participation in radiologic societies and other health care organizations

Rotation 2:

1. Knowledge Based Objectives
   At the end of rotation two, the resident should be able to:
   • Continue to interpret X-ray, CT and ultrasound exams
   • Understand the classification and pathology of tumors
   • Recognize various patterns of metastatic spread and give appropriate differential diagnosis

Assessment
Global ratings by faculty
Written ABR examination
ACR in-training examination
Attendance logs for multidisciplinary conferences
Documented membership and participation in radiologic societies and other health care organizations

2. Technical Skills
   At the end of rotation two, the resident should be able to:
   • Acquire practical experience in dictating radiologic reports
   • Effectively coordinate with technologists and nurses to manage any patient and imaging issues
   • Demonstrate an understanding of the broad principles of biomedical ethics

Assessment
Global ratings by faculty
Written ABR examination
ACR in-training examination
Attendance logs for multidisciplinary conferences
Documented membership and participation in radiologic societies and other health care organizations

Number of films read per day: 15-20 films

Types of film read: 10 CT, 5 plain films and 2-5 ultrasound exam

3. Decision-Making & Value Judgment Skills
   At the end of rotation two, the resident should be able to:
   • Incorporate knowledge of current ACR appropriateness criteria to develop evidence-based indications for imaging procedures
• Provide compassionate, appropriate and effective patient care commensurate with experience and individual competency.

• Insure the patient’s dignity and privacy and not discriminate against any patient based on religion, ethnic, sexual or educational differences.

• Communicate effectively and use appropriate nomenclature with healthcare professionals, including faculty, technologists, and support staff.

• Communicate with referring physicians about all significant or unexpected radiological findings.

• Recognize limits in personal skill and knowledge, especially when assisting with imaging interpretation and patient management. Obtain help from supervisory faculty when appropriate.

• Demonstrate a professional work ethic including:
  o Altruism.
  o Punctuality.
  o Adherence to all relevant policies and procedures.
  o Proper preparation for rotation, including recommended reading assignments completed.
  o Treat all faculty, technologists, and support staff with respect, understanding, and professionalism.

Assessment
Global ratings by faculty
Written ABR examination
ACR in-training examination
Attendance logs for multidisciplinary conferences
Documented membership and participation in radiologic societies and other health care organizations

Rotation 3:

1. Knowledge Based Objectives
   At the end of rotation three, the resident should be able to:
   • Recognize the staging of common malignancies, as defined by imaging
   • Define objective response criteria such as PD, SD, PR and CR and their differences
   • Interpret abdominopelvic MRI

Assessment
Global ratings by faculty
Written ABR examination
ACR in-training examination
Attendance logs for multidisciplinary conferences
Documented membership and participation in radiologic societies and other health care organizations

2. Technical Skills
   At the end of rotation three, the resident should be able to:
   • Exhibit dictation and communication skills with physicians demonstrated by clear and concise reporting and timely communication and documentation of significant results
   • Learn the fundamental principles and techniques of MRI
   • Demonstrate knowledge of regulatory issues pertaining to the use of human subjects in research

Assessment
Global ratings by faculty
Written ABR examination
ACR in-training examination
Attendance logs for multidisciplinary conferences
Documented membership and participation in radiologic societies and other health care organizations

Number of films read per day: 20 films
Types read: 10-12 CT, 2-5 ultrasound and 2-5 MRI

3. Decision-Making & Value Judgment Skills
At the end of rotation three, the resident should be able to:

- Demonstrate active participation in hospital-sponsored core curriculum educational activities (e.g., clinical conferences, lectures and web-based programs)
- Provide compassionate, appropriate and effective patient care commensurate with experience and individual competency.
- Insure the patient’s dignity and privacy and not discriminate against any patient based on religion, ethnic, sexual or educational differences.
- Communicate effectively and use appropriate nomenclature with healthcare professionals, including faculty, technologists, and support staff.
- Communicate with referring physicians about all significant or unexpected radiological findings.
- Recognize limits in personal skill and knowledge, especially when assisting with imaging interpretation and patient management. Obtain help from supervisory faculty when appropriate.
- Demonstrate a professional work ethic including:
  - Altruism.
  - Punctuality.
  - Adherence to all relevant policies and procedures.
  - Proper preparation for rotation, including recommended reading assignments completed.
  - Treat all faculty, technologists, and support staff with respect, understanding, and professionalism.

Assessment
Global ratings by faculty
Written ABR examination
ACR in-training examination
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Rotation 4:

1. Knowledge Based Objectives
At the end of rotation four, the resident should be able to:

- Recognize the post-surgical appearances following resection of various tumors
- Identify the various complications in oncology related to chemotherapy, radiotherapy, and intervention
- Give appropriate differential diagnoses for treatment-related complications

Assessment
Global ratings by faculty
Written ABR examination
ACR in-training examination
Attendance logs for multidisciplinary conferences
Documented membership and participation in radiologic societies and other health care organizations
2. **Technical Skills**
   At the end of rotation four, the resident should be able to:
   - Provide a clear and informative written radiologic report, including a precise diagnosis whenever possible, a differential diagnosis when appropriate, and a follow-up recommendation or additional studies when appropriate
   - Demonstrate skill and knowledge in various post-processing techniques in oncologic imaging
   - Demonstrate knowledge of advanced MRI applications

**Assessment**
Global ratings by faculty
Written ABR examination
ACR in-training examination
Attendance logs for multidisciplinary conferences
Documented membership and participation in radiologic societies and other health care organizations

**Number of films read per day:** 20

**Types of film read:** 10-15 CT, 2-5 MRI and 2-5 ultrasound

3. **Decision-Making & Value Judgment Skills**
   At the end of rotation four, the resident should be able to:
   - Participate as an active member of the radiology team in the discussion and communication of results to imaging clinicians, in providing consultations, in problem solving, and decision making
   - Demonstrate active participation at departmental and multidisciplinary conferences which may include discussions about the imaging evaluation of specific diseases and the most appropriate and cost-effective methods for establishing a diagnosis
   - Provide compassionate, appropriate and effective patient care commensurate with experience and individual competency.
   - Insure the patient’s dignity and privacy and not discriminate against any patient based on religion, ethnic, sexual or educational differences.
   - Communicate effectively and use appropriate nomenclature with healthcare professionals, including faculty, technologists, and support staff.
   - Communicate with referring physicians about all significant or unexpected radiological findings.
   - Recognize limits in personal skill and knowledge, especially when assisting with imaging interpretation and patient management. Obtain help from supervisory faculty when appropriate.
   - Demonstrate a professional work ethic including:
     - Altruism.
     - Punctuality.
     - Adherence to all relevant policies and procedures.
     - Proper preparation for rotation, including recommended reading assignments completed.
     - Treat all faculty, technologists, and support staff with respect, understanding, and professionalism.

**Assessment**
Global ratings by faculty
Written ABR examination
ACR in-training examination
Attendance logs for multidisciplinary conferences
Documented membership and participation in radiologic societies and other health care organizations