

**General Competency Radiology
In-Training Test Questions
for Diagnostic Radiology Residents**



QUALITY IS OUR IMAGE

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Sponsored by:

Commission on Education

Committee on Residency Training in Diagnostic Radiology

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1. Residents and health care professionals show Professionalism by demonstrating the following skills:
 - A. Altruism, compassion and excellence.
 - B. Altruism.
 - C. Altruism, compassion and excellence without discrimination.
 - D. Altruism and compassion but can make subjective decisions about individual patient care.

Rationales:

- A. *Incorrect.* Professionalism requires more than altruism alone (answer B), or altruism, compassion and excellence (answer A). While altruism and compassion are important skills, these skills need to be delivered without discrimination.
- B. *Incorrect.* Professionalism requires more than altruism alone.
- C. **Correct.** Professionalism requires altruism, compassion and excellence without discrimination.
- D. *Incorrect.* While objective decisions about individual patient care may need to be made, subjective decisions about individual patient care (answer D) do not exclude the possibility of discrimination.

Citations:

www.acgme.org/acWebsite/downloads/RRC_progReq/420subs602_u704.pdf.

2. Residents and health care professionals show understanding of Systems-Based Practice by demonstrating the following skills:
 - A. Show the ability to consider costs.
 - B. Show the ability to consider costs and design cost-effective care plans based on best practices.
 - C. Show the ability to consider costs and design cost-effective care plans based on best practices, and be familiar with sources of healthcare funding.
 - D. Show the ability to consider costs and design cost-effective care plans based on best practices, and be familiar with sources of healthcare funding and reimbursement procedures.

Rationales:

- A. *Incorrect.* Part of the concept of systems-based practice is to understand the costs and different sources of funding and reimbursement for U.S. health care. These include both costs and the design of cost-effective care plans based on best practices, and also being familiar with sources of healthcare funding and reimbursement procedures (answer D), and not just basic costs (answer A), or costs and cost-effective care plans based on best practices (answer B) or costs, cost-effective care plans and sources of healthcare funding.
- B. *Incorrect.* Part of the concept of systems-based practice is to understand the costs and different sources of funding and reimbursement for U.S. health care. These include both costs and the design of cost-effective care plans based on best practices, and also being familiar with sources of healthcare funding and reimbursement procedures (answer D), and not just basic costs (answer A), or costs and cost-effective care plans based on best practices (answer B) or costs, cost-effective care plans and sources of healthcare funding.
- C. *Incorrect.* Part of the concept of systems-based practice is to understand the costs and different sources of funding and reimbursement for U.S. health care. These include both costs and the design of cost-effective care plans based on best practices, and also being familiar with sources of healthcare funding and reimbursement procedures (answer D), and not just basic costs (answer A), or costs and cost-effective care plans based on best practices (answer B) or costs, cost-effective care plans and sources of healthcare funding.
- D. **Correct.** Part of the concept of systems-based practice is to understand the costs and different sources of funding and reimbursement for U.S. health care. These include both costs and the design of cost-effective care plans based on best practices, and also being familiar with sources of healthcare funding and reimbursement procedures.

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3. These skills required to practice Systems-Based Practice can be gained through the following educational activities:
- A. Regular review of literature, including ACR standards, attending conferences on regulation and reimbursement, and participation in conferences related to disease-specific imaging evaluations.
 - B. Regular review of literature, including ACR standards and attending conferences on regulation and reimbursement.
 - C. Regular review of literature, including ACR standards.
 - D. Regular review of literature, including ACR standards, attending conferences related to disease-specific imaging evaluations and conferences on regulation and reimbursement.

Rationales:

- A. **Correct.** The skills required to practice Systems-Based Practice can be gained through certain educational activities. These include regular review of literature, including ACR standards, attending conferences on regulation and reimbursement, and participation in conferences related to disease-specific imaging evaluations (answer A), and not just regular review of literature, and attending conferences on regulation and reimbursement (answer B), or regular review of literature alone (answer C) Participate in conferences related to disease-specific imaging evaluations is required not just attendance.
- B. *Incorrect.*
- C. *Incorrect.*
- D. *Incorrect.*

Citations:

www.acgme.org/acWebsite/downloads/RRC_progReq/420subs602_u704.pdf.

4. The professionalism of residents and other health care professionals can be assessed through:
- A. Global ratings by faculty.
 - B. CME course credits.
 - C. Web training certificates.
 - D. Global ratings by faculty, web training certificates, and conference attendance log.

Rationales:

- A. *Incorrect.* Professional behavior can be assessed using a number of methods including global ratings by faculty, web training certificates, and conference attendance log. Global ratings by faculty alone is incorrect.
- B. *Incorrect.* CME course credits alone, is incorrect.
- C. *Incorrect.* Professional behavior can be assessed using a number of methods including global ratings by faculty, web training certificates, and conference attendance log. Global ratings by faculty or web training certificates alone are insufficient.
- D: **Correct.**

Citations:

www.acgme.org/acWebsite/downloads/RRC_progReq/420subs602_u704.pdf.

5. Residents and health care professionals should demonstrate a commitment to fulfill professional responsibilities by demonstrating the following skills:
- A. Develop and maintain positive work habits, maintain confidentiality, and adhere to regulatory standards regarding human subjects.
 - B. Develop and maintain positive work habits.
 - C. Adhere to regulatory standards regarding human subjects.
 - D. Develop and maintain positive work habits, and adhere to regulatory standards regarding human subjects.

Rationales:

- A. **Correct.** Professionalism requires all three components, development and maintenance of positive work habits, maintenance of confidentiality, and adherence to regulatory standards regarding human subjects.
- B. *Incorrect.*
- C. *Incorrect.*
- D. *Incorrect.*

Citations:

www.acgme.org/acWebsite/downloads/RRC_progReq/420subs602_u704.pdf.

6. Residents and health care professionals show understanding of Systems-Based Practice by demonstrating the following skills:
- A. Demonstrate knowledge of best practice including record-keeping, discipline, and staff management.
 - B. Learn about licensing and accreditation regulatory issues, and demonstrate knowledge of best practice including record-keeping, discipline, and staff management.
 - C. Learn about licensing.
 - D. Learn about licensing though, knowledge of accreditation regulatory issues are not necessary.

Rationales:

- A. *Incorrect.*
- B. **Correct.** Systems-based practice requires health care professionals to learn about licensing and accreditation regulatory issues, and demonstrate knowledge of best practice including record-keeping, discipline, and staff management.
- C. *Incorrect.*
- D. *Incorrect.*

Citations:

www.acgme.org/acWebsite/downloads/RRC_progReq/420subs602_u704.pdf.

7. Residents and health care professionals can gain the skills required to practice Systems-Based Practice through the following activities:
- A. Attend local and national Radiology society meetings.
 - B. Interact with billing coders, administrators, and staff, and participate in local and national Radiology societies.
 - C. Interact with administrators.
 - D. Interact with billing coders, administrators, and staff, and attend local and national Radiology society meetings.

Rationales:

- A. *Incorrect.*
- B. **Correct.** Systems-Based Practice requires interaction with billing coders, administrators, and staff, and participation in local and national Radiology societies.
- C. *Incorrect.*
- D. *Incorrect.*

Citations:

www.acgme.org/acWebsite/downloads/RRC_progReq/420subs602_u704.pdf.

8. Which of the following is TRUE concerning the American College of Radiology practice guidelines on patient care and breast ultrasound?
- A. An appropriate indication for breast ultrasonography is radiation therapy planning.
 - B. Breast ultrasonography should be performed by a board-certified radiologist only.
 - C. Breast ultrasonography may be performed by a radiation technologist when the attending physician is present.
 - D. Breast ultrasonography may be performed with a real-time scanner that operates at a center frequency of at least 5 MHz.

Rationales:

- A. **Correct.** ACR Practice Guideline for Performing and Interpreting Diagnostic Ultrasound Examination states “Physicians who perform and/or interpret diagnostic ultrasound examinations should be licensed medical practitioners who have a thorough understanding of the indications for ultrasound examinations as well as a familiarity with the basic physical principles and limitations of the technology of ultrasound imaging.” Regarding studies performed by a diagnostic medical sonographer, it states “When a sonographer performs the examination, that person should be qualified by appropriate training to do so. This qualification can be demonstrated by certification or eligibility for same by a nationally recognized certifying body.” Therefore, distractors B and C are incorrect. ACR Guideline for the Performance of a Breast Ultrasound Examination states, “Breast ultrasound should be performed with a high-resolution and real-time linear array scanner operating at a center frequency of at least 7 MHz...” Therefore, answer D is incorrect. Per ACR Practice guidelines, “appropriate indications for breast sonography include: 1. Identification and characterization of palpable and nonpalpable abnormalities and further evaluation of clinical and mammographic findings. 2. Guidance of interventional procedures. 3. Evaluation of problems associated with breast implants. 4. Treatment planning for radiation therapy.”

Citations:

www.acr.org, Quality and Safety, Guidelines/Standards, Ultrasound, ACR Practice Guideline for Performing and Interpreting Diagnostic Ultrasound Examinations, ACR Practice Guideline for the Performance of a Breast Ultrasound Examination.