



Medical imaging

Deadline: Postmarked no later than **March 1, 2012**

Credit: 1 AAMA CEU (gen/clin)

#121728

Continuing education test

Directions: Determine whether each of the following statements is true (T) or false (F) based on information derived from the article.

- | T | F | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | 1. Isidor I. Rabi discovered the rotating magnetic field in 1937. |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Raymond Damadian, MD, investigated the possibility of using nuclear magnetic resonance (NMR) in the early 1950s. |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. Some atoms in the human body have magnetic properties. |
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Diffusion-weighted imaging cannot differentiate benign from malignant endometrial lesions. |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Magnetic resonance (MR) elastography provides information about the mechanical properties of tissue, such as stiffness. |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Patients are enclosed in the MR system for 30 to 60 minutes. |
| <input type="checkbox"/> | <input type="checkbox"/> | 7. A patient with a history of renal disease should be tested for glomerular filtration prior to exposure to gadolinium-based MR contrast agents. |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Patients with MR-conditional pacemakers can undergo magnetic resonance imaging (MRI). |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Tattoos do not affect a patient's MRI procedure or pose any known side effects. |
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Twenty percent of patients experience an allergic reaction after intravenous injection of gadolinium-containing contrast media. |
| <input type="checkbox"/> | <input type="checkbox"/> | 11. Vibrations of the MRI scanner's gradient coil produce the noise that is heard during the procedure. |
| <input type="checkbox"/> | <input type="checkbox"/> | 12. Noises produced by the MRI scanner cannot affect the imaging results for testing language. |
| <input type="checkbox"/> | <input type="checkbox"/> | 13. Pregnant patients should not undergo MRI in any circumstance. |
| <input type="checkbox"/> | <input type="checkbox"/> | 14. A mammography is significantly more accurate than MRI in screening for hereditary breast cancer in women. |
| <input type="checkbox"/> | <input type="checkbox"/> | 15. Computed tomography (CT) provides cross-sectional images of organs and tissues. |
| <input type="checkbox"/> | <input type="checkbox"/> | 16. Patients who undergo CT scans have an increased lifetime risk of cancer caused by radiation exposure. |
| <input type="checkbox"/> | <input type="checkbox"/> | 17. Patients need not wear a lead apron while undergoing an X-ray. |
| <input type="checkbox"/> | <input type="checkbox"/> | 18. Lung MRI and chest X-rays are comparable in terms of diagnostic accuracy. |
| <input type="checkbox"/> | <input type="checkbox"/> | 19. MRI is better than ultrasound at predicting certain fetal central nervous system disorders, but the cost, availability, and complexity are not conducive to widespread use. |
| <input type="checkbox"/> | <input type="checkbox"/> | 20. Treatment for mental illnesses could benefit from a resting-state MR, a technology that is currently being investigated. |

Continuing education application

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