

Diagnosing Coronary Artery Disease in Women: An Update on Cardiac Imaging Modalities

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1. The leading cause of death for adult women in the United States is:

- A. Breast cancer
- B. Coronary heart disease
- C. Trauma
- D. Colon cancer
- E. Ovarian cancer

2. Of women undergoing invasive coronary angiography for accepted clinical indications, approximately what percent have obstructive coronary artery disease?
- A. Less than 50%
 - B. 60%
 - C. 70%
 - D. 80%
 - E. 90%
3. Coronary artery calcium scoring provides an estimate of:
- A. Total atherosclerotic burden
 - B. Functional coronary capacity
 - C. The degree of atherosclerotic obstruction
 - D. Myocardial ischemia
 - E. Safe exercise tolerance
4. For an exercise stress test to have adequate sensitivity for detecting ischemia, patients must reach approximately what percentage of their age-predicted maximum heart rate?
- A. 45%
 - B. 55%
 - C. 65%
 - D. 75%
 - E. 85% or greater
5. A graded treadmill exercise test is preferred over a pharmacologic stress test because of its ability to predict:
- A. The degree of coronary blockage
 - B. Long-term survival
 - C. The risk of angina
 - D. The rate of pregnancy complications
 - E. Response to medical therapy

6. Which of the following factors would make achieving an adequate stress echocardiogram less likely?
- A. Body mass index (BMI) less than 20
 - B. An artificial heart valve
 - C. Breast augmentation
 - D. Age less than 35
 - E. History of hypertension
7. Coronary artery calcium scoring is generally not performed on pregnant patients because of:
- A. Reduced positive predictive value
 - B. The need to be supine for up to 4 hours
 - C. The use of iodinated contrast material
 - D. The level of radiation involved
 - E. Prolonged breath holding required during the procedure
8. When compared to the Framingham risk scoring system, the use of the coronary artery calcium scoring system for the prediction of atherosclerotic events is:
- A. Twofold worse
 - B. Approximately the same
 - C. Twofold better
 - D. Fourfold better
 - E. Tenfold better
9. Coronary computed tomography (CT) angiography may be preferable to functional stress imaging studies because it provides:
- A. Direct visualization of the coronary vessels
 - B. Information about coronary perfusion
 - C. Documentation about cardiac wall motion
 - D. A lower negative predictive value
 - E. Direct access for immediate intervention

10. A breastfeeding patient undergoes cardiac magnetic resonance imaging (MRI) employing gadolinium as a contrast medium. Regarding her breastfeeding, you should advise her that:

- A. She must cease breastfeeding immediately and not resume
- B. She must cease breastfeeding immediately but may resume in 7 to 10 days
- C. She must cease breastfeeding immediately but may resume in 48 hours
- D. She must pump and discard her breast milk for 72 hours
- E. She can continue breast feeding without interruption

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