

**MCAC Questions**  
**Non Invasive Imaging for Coronary Artery Disease**

1. How confident are you that there is sufficient evidence to determine the diagnostic accuracy of the following noninvasive technologies for the detection of obstructive coronary artery lesions?
  - a. Computed tomography angiography
  - b. Electron beam tomography
  - c. MRI
  - d. Other identified technologies

|                       |                           |               |                             |                         |
|-----------------------|---------------------------|---------------|-----------------------------|-------------------------|
| <b>Very confident</b> | <b>Somewhat confident</b> | <b>Unsure</b> | <b>Somewhat unconfident</b> | <b>Very unconfident</b> |
| <b>5</b>              | <b>4</b>                  | <b>3</b>      | <b>2</b>                    | <b>1</b>                |

2. How confident are you that there is sufficient evidence to determine if these noninvasive technologies can accurately determine the anatomic location of obstructive coronary artery lesions?
  - a. Computed tomography angiography
  - b. Electron beam tomography
  - c. MRI
  - d. Other identified technologies

|                       |                           |               |                             |                         |
|-----------------------|---------------------------|---------------|-----------------------------|-------------------------|
| <b>Very confident</b> | <b>Somewhat confident</b> | <b>Unsure</b> | <b>Somewhat unconfident</b> | <b>Very unconfident</b> |
| <b>5</b>              | <b>4</b>                  | <b>3</b>      | <b>2</b>                    | <b>1</b>                |

3. How confident are you that there is sufficient evidence to determine if these noninvasive technologies can accurately detect the relevant morphology (size, shape, ulceration, etc.) of obstructive coronary artery lesions?

|                       |                           |               |                             |                         |
|-----------------------|---------------------------|---------------|-----------------------------|-------------------------|
| <b>Very confident</b> | <b>Somewhat confident</b> | <b>Unsure</b> | <b>Somewhat unconfident</b> | <b>Very unconfident</b> |
| <b>5</b>              | <b>4</b>                  | <b>3</b>      | <b>2</b>                    | <b>1</b>                |

- a. Computed tomography angiography
  - b. Electron beam tomography
  - c. MRI
  - d. Other identified technologies
4. How confident are you that non-invasive imaging (identified in Q1-3 as having sufficient evidence) can be used instead of coronary artery catheterization to determine treatment of coronary artery disease? If you are confident or very confident, in which populations are you confident that non-invasive imaging can be used without resulting in adverse health outcomes?

|                       |                           |               |                             |                         |
|-----------------------|---------------------------|---------------|-----------------------------|-------------------------|
| <b>Very confident</b> | <b>Somewhat confident</b> | <b>Unsure</b> | <b>Somewhat unconfident</b> | <b>Very unconfident</b> |
| <b>5</b>              | <b>4</b>                  | <b>3</b>      | <b>2</b>                    | <b>1</b>                |

5. If non-invasive imaging (identified in Q1-3 as having sufficient evidence) were to be used in addition to coronary artery catheterization:

a. How confident are you that noninvasive imaging (identified in Q1-3 as having sufficient evidence) provides an incremental benefit or harm when used before coronary artery catheterization?

|                       |                           |               |                             |                         |
|-----------------------|---------------------------|---------------|-----------------------------|-------------------------|
| <b>Very confident</b> | <b>Somewhat confident</b> | <b>Unsure</b> | <b>Somewhat unconfident</b> | <b>Very unconfident</b> |
| <b>5</b>              | <b>4</b>                  | <b>3</b>      | <b>2</b>                    | <b>1</b>                |

b. How confident are you that noninvasive imaging (identified in Q1-3 as having sufficient evidence) provides an incremental benefit or harm when used after coronary artery catheterization?

|                       |                           |               |                             |                         |
|-----------------------|---------------------------|---------------|-----------------------------|-------------------------|
| <b>Very confident</b> | <b>Somewhat confident</b> | <b>Unsure</b> | <b>Somewhat unconfident</b> | <b>Very unconfident</b> |
| <b>5</b>              | <b>4</b>                  | <b>3</b>      | <b>2</b>                    | <b>1</b>                |

6. How confident are you that:

a) The diagnostic test characteristics of the technologies (identified in Q1-3 as having sufficient evidence) are generalizable to the Medicare beneficiary population

|                       |                           |               |                             |                         |
|-----------------------|---------------------------|---------------|-----------------------------|-------------------------|
| <b>Very confident</b> | <b>Somewhat confident</b> | <b>Unsure</b> | <b>Somewhat unconfident</b> | <b>Very unconfident</b> |
| <b>5</b>              | <b>4</b>                  | <b>3</b>      | <b>2</b>                    | <b>1</b>                |

b) Diagnostic and treatment strategies using non-invasive imaging (identified in Q1-3 as having sufficient evidence) of coronary artery disease provide a net health benefit to Medicare beneficiaries compared to strategies that use invasive imaging?

|                       |                           |               |                             |                         |
|-----------------------|---------------------------|---------------|-----------------------------|-------------------------|
| <b>Very confident</b> | <b>Somewhat confident</b> | <b>Unsure</b> | <b>Somewhat unconfident</b> | <b>Very unconfident</b> |
| <b>5</b>              | <b>4</b>                  | <b>3</b>      | <b>2</b>                    | <b>1</b>                |

**Net health benefit** - Balance between risks and benefits including complications of treatment