SCOPE:
This policy addresses the medical necessity of Cardiac CT scanning to determine Coronary Artery Calcification.

DEFINITIONS AND ACRONYMS:
- American College of Cardiology/American Heart Association (ACC/AHA)
- Coronary CT Angiography (CCTA)
- Intermediate Risk – Likelihood of coronary heart disease based on risk assessment based on age, blood pressure, cholesterol, smoking, diabetes & family history.
- Journal of the American College of Cardiology (JACC)
- Multi Ethnic Study of Atherosclerosis (MESA)

POLICY:
A. Cardiac CT scanning is considered medically necessary ONLY in the following situation
   - Asymptomatic, intermediate risk individuals (10-20%) without prior cardiac testing
B. Cardiac CT scanning is considered medically unnecessary in the following situations
   - Asymptomatic, low risk individuals (<10%)
   - Symptomatic individuals regardless of risk status
   - In conjunction with CCTA
C. Cardiac CT scanning for coronary calcification has been studied & reported on in the literature since 2006. There is no Class 1 recommendation for this procedure by the ACC/AHA in the literature. There is a weaker Class 2B recommendation for asymptomatic, intermediate risk individuals. There has been no major change in thinking by the ACC/AHA in subsequent updates in 2010 & 2013. The basis of these recommendations is the MESA study which is still going on since 2000.

REFERENCES:
- Journal of the American College of Cardiology 2007: 49; 1860-1870 “Registry of 25,273 patients”
- Journal of the American College of Cardiology 2009: 53; 345-352 “MESA Study”
HEALTH PLAN POLICY

Policy Title: Cardiac CT Scans to Detect Coronary Calcium  
Policy Number: MUM32  
Revision: B

- New England Journal of Medicine, 2008; 358; 1336-1345; “Coronary Calcium in 4 Ethnic Groups”

RELATED DOCUMENTS:
None

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Chief Executive Officer Health Plans

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REVISION HISTORY:

<table>
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<th>Revision</th>
<th>Date</th>
<th>Description of Change</th>
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<tr>
<td>New</td>
<td>02/22/2018</td>
<td>Initial release.</td>
<td>Executive Leadership</td>
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<tr>
<td>A</td>
<td>04/24/2019</td>
<td>Annual review. Removed Medicaid and CHIP from lines of business.</td>
<td>Executive Leadership</td>
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<td>B</td>
<td>05/14/2020</td>
<td>Annual review. No change to policy content.</td>
<td>Executive Leadership</td>
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