

Cardiac Makers in The Early Diagnosis and Management of Patients with Acute Coronary Syndrome

Adjudication Guideline

Rule Category: Billing

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Table of Contents

1.	Abstract		
	1.1	For Members	3
	1.2	For Medical Professionals	3
2.	Scop	oe	3
3.	Adjudication Policy		
	3.1	Eligibility / Coverage Criteria	4
		Requirements for Coverage	
	3.3	Non-Coverage	4
	3.4	Payment and Coding Rules	4
4.	Deni	al Codes	4
5.	Appendices		
	5.1	References	5
	5.2	Revision History	5



1. Abstract

1.1 For Members

Chest pain comes in many varieties, ranging from a sharp stab to a dull ache. Some chest pain is described as crushing or burning. In certain cases, the pain travels up the neck, into the jaw, and then radiates through to the back or down one or both arms. Many different problems can cause chest pain. The most life-threatening ones involve the heart (Acute coronary syndrome) or lungs.

1.2 For Medical Professionals

This adjudication rule defines the coverage for cardiac marker tests in diagnosis and risk stratification of patient with chest pain and suspected acute coronary syndrome (ACS).

2. Scope

The scope of this adjudication rule highlights the coverage for Cardiac marker tests in diagnosis and risk stratification of patients with chest pain and suspected acute coronary syndrome (ACS) for health insurance plans administered by Daman subject to policy terms and conditions.

Medical Indications:

Cardiac markers are used in the diagnosis and risk stratification of patients with chest pain and suspected acute coronary syndrome (ACS). In patients with suspected acute coronary syndrome (ACS), the following laboratory studies are performed to confirm the diagnosis:

- 1. **Troponins:** The troponins are regulatory proteins found in skeletal and cardiac muscle Cardiac troponin are used in the diagnosis and risk stratification of patients with chest pain and suspected acute coronary syndrome (ACS). The cardiac troponins, in particular, have become the cardiac markers of choice for patients with ACS. Indeed, cardiac troponin is central to the definition of acute myocardial infarction (MI) in the consensus guidelines from the European Society of Cardiology (ESC) and the American College of Cardiology (ACC): These guidelines recommend that cardiac biomarkers should be measured at presentation in patients with suspected MI, and that the only biomarker that is recommended to be used for the diagnosis of acute MI at this time is cardiac troponin due to its superior sensitivity and accuracy.
- 2. **Creatine Kinase–MB:** Prior to the introduction of cardiac troponins, the biochemical marker of choice for the diagnosis of acute MI was the CK-MB isoenzyme. The criterion most commonly used for the diagnosis of acute MI was 2 serial elevations above the diagnostic cutoff level or a single result more than twice the upper limit of normal. Although CK-MB is more concentrated in the myocardium, it also exists in skeletal muscle and false-positive elevations occur in a number of clinical settings, including trauma, heavy exertion, and myopathy. With the availability of cardiac troponin, CK-MB, myoglobin and other biomarkers are no longer necessary.
- 3. **Myoglobin:** Myoglobin is a heme protein found in skeletal and cardiac muscle that has attracted considerable interest as an early marker of MI. With the adoption of a troponin standard for acute MI in the ACC/ESC definition, the sensitivity of myoglobin for acute MI is substantially reduced. This significantly diminishes its utility, and a number of studies have indicated that contemporary cardiac troponin assays render the use of myoglobin measurements unnecessary.

damaninsurance.ae PUBLIC | 11870R00 | 3 of 5



3. Adjudication Policy

3.1 Eligibility / Coverage Criteria

Coverage:

Coverage is subject to SOBs and medically necessary conditions pertaining to Acute Coronary Syndrome and associated conditions when requested for cardiac markers.

Frequency of retesting:

In patients presenting very early (e.g. Within 1 h from chest pain onset), the second cardiac troponin level should be obtained at 3 h, due to the time dependency of troponin release; as late increases in cardiac troponin have been described in 1% of patients, serial cardiac troponin testing should be pursued if the clinical suspicion remains high or whenever the patient develops recurrent chest pain.

3.2 Requirements for Coverage

As per AHA (American Heart Association) up to date release of the Guideline for the Management of Patients with Non–ST-Elevation Acute Coronary Syndromes with availability of contemporary troponin assays, creatine kinase myocardial isoenzyme (CK-MB) and myoglobin **are not useful** for diagnosis of ACS.

3.3 Non-Coverage

Daman has revised its position on the coverage of both tests and will no longer cover CK-MB and Myoglobin for the diagnosis and risk stratification of patients with chest pain and suspected acute coronary syndrome (ACS) for ALL health insurance plans administered by Daman.

3.4 Payment and Coding Rules

CPT code	Code Description
84484	Troponin, quantitative
84512	Troponin, qualitative

4. Denial Codes

Code	Code Description
MNEC-003	Service is not clinically indicated based on good clinical practice
	Service is not clinically indicated based on good clinical practice, without additional supporting diagnoses/activities

damaninsurance.ae PUBLIC | 11870R00 | 4 of 5



Appendices

5.1 References

- https://www.uptodate.com/contents/initial-evaluation-and-management-of-suspected-acutecoronary-syndrome-myocardial-infarction-unstable-angina-in-the-emergency-department
- https://documents.cap.org/documents/cap-cardiac-marker-webinar-handout.pdf
- https://www.ncbi.nlm.nih.gov/books/NBK545216/
- http://circ.ahajournals.org/content/130/25/e344
- https://www.ncbi.nlm.nih.gov/pubmed/9924168

5.2 Revision History

Date	Change(s)
30/09/2017	Creation of Adjudication Guideline-External Instructions.
24/12/2024	Version 2.0 • General Content Review • References Updated

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damaninsurance.ae 11870R00 PUBLIC 5 of 5